



September 4, 2025

BCC Agenda Date/Item: _____

Board of County Commissioners
Acting as the governing body of Water Environment Services
Clackamas County

**Approval of a Personal Services Contract with Herrera Environmental Consultants for on-call engineering services. Contract Value is \$1,000,000 for 5 years. Funding is through Water Environment Services Construction Fund and Operating Fund.
No County General Funds are involved.**

Previous Board Action/Review	N/A		
Performance Clackamas	1. This project supports the WES Strategic Plan Goal to strategically plan and execute capital projects to meet the growth, reliability, and regulatory needs of our service area at the lowest-life cycle cost. 2. This project supports the County's Strategic Priorities of Strong Infrastructure, Vibrant Economy, and Safe, Secure and Livable Communities.		
Counsel Review	Yes	Procurement Review	Yes
Contact Person	Jeff Stallard	Contact Phone	503-742-4694

EXECUTIVE SUMMARY: WES frequently encounters unanticipated projects and urgent engineering needs that arise outside of the annual planning and capital improvement process. These can include emergency repair design, regulatory compliance support, specialty technical analysis, and smaller capital or operational projects.

Under the current procurement process, engaging engineering services for these smaller or urgent projects often requires repetitive contracting efforts, which can be time-consuming and delay project delivery. Establishing on-call contracts will allow WES to streamline procurement, improve efficiency, and ensure timely response to our needs.

We conducted a competitive solicitation process to identify qualified engineering firms capable of providing services in four categories, Wastewater Conveyance and Treatment Engineering, Water Resources Engineering, Engineering Construction Services, and Wastewater Process Engineering and Operational Support. Work in these categories will include a wide range of services, including planning, design, permitting, and construction support. Multiple firms were selected to ensure adequate availability,

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specialized expertise, and competitive pricing.

The on-call contracts do not obligate funding at the time of award. Task orders issued under these contracts will be funded through approved operating or capital project budgets.

RECOMMENDATION: Staff recommends that the Board of County Commissioners of Clackamas County, acting as the governing body of Water Environment Services, approve Contract #1286 with Parametrix, Inc. for engineering on-call services.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Greg Geist", with a long horizontal flourish extending to the right.

Greg Geist
Director, WES

Attachment: Contract #1286 Parametrix, Inc



**WATER ENVIRONMENT SERVICES
PERSONAL SERVICES CONTRACT
Contract #0000001286**

This Personal Services Contract (this "Contract") is entered into between Parametrix, Inc. ("Contractor"), and Water Environment Services, an intergovernmental entity formed pursuant to ORS Chapter 190 ("District").

ARTICLE I.

- 1. Effective Date and Duration.** This Contract shall become effective upon signature of both parties. Unless earlier terminated or extended, this Contract shall expire on **June 30, 2030**.
- 2. Scope of Work.** Contractor shall provide On-Call Engineering Services ("Work"), further described in **Exhibit A**. The Contractor is approved to perform services for the following classes of Work:

- ☒ 1) Wastewater Conveyance and Treatment Engineering
- ☐ 2) Water Resources Engineering
- ☐ 3) Engineering Construction Services
- ☒ 4) Wastewater Process Engineering and Operational Support

This Contract is on an "on-call" or "as-needed basis" for Work.

When the District wishes Contractor to perform the Work, the District will submit an official Clackamas District Task Order form (found at: <https://www.clackamas.us/finance/terms.html>) detailing the scope of Work, the entity on whose behalf the Work will be performed, and the total compensation, pursuant to the fee schedule set forth in this Contract. Contractor may not perform Work until the County Task Order form has been executed by the parties. In the event a project authorized under the County Task Order extends beyond the expiration of this Contract, the County Task Order shall remain in effect under the terms of this Contract until the completion or expiration of the authorized task.

No task order shall modify or amend the terms and conditions of this Contract.

- 3. Consideration.** The District agrees to pay Contractor, from available and authorized funds, a sum not to exceed **two million dollars (\$2,000,000.00)** for accomplishing the Work required by this Contract. Because this is an on-call or as-needed contract, and the exact amount of Work needed, if any, is unknown, nothing herein shall be construed as a promise to pay Contractor the full \$2,000,000.00 authorized herein. Consideration rates are on a time and materials basis in accordance with the rates and costs specified in Exhibit A. If any interim payments to Contractor are made, such payments shall be made only in accordance with the schedule and requirements in Exhibit A.
- 4. Invoices and Payments.** Unless otherwise specified, Contractor shall submit monthly invoices for Work performed. Invoices shall describe all Work performed with particularity, by whom it was performed, and shall itemize and explain all expenses for which reimbursement is claimed. The invoices shall include the total amount billed to date by Contractor prior to the current invoice. If Contractor fails to present invoices in proper form within sixty (60) calendar days after the end of the month in which the services were rendered, Contractor waives any rights to present such invoice thereafter and to receive payment therefor. Payments shall be made in accordance with ORS 293.462 to Contractor following the District's review and approval of invoices submitted by Contractor. Contractor shall not submit invoices for, and the District will not be obligated to pay, any amount in excess of the maximum compensation amount set forth above. If this maximum compensation

amount is increased by amendment of this Contract, the amendment must be fully effective before Contractor performs Work subject to the amendment.

Invoices shall reference the above Contract Number and be submitted to: Wes-Payables@clackamas.us

5. Travel and Other Expense. Authorized: ☐ Yes ☒ No

If travel expense reimbursement is authorized in this Contract, such expense shall only be reimbursed at the rates in the Clackamas County Contractor Travel Reimbursement Policy, hereby incorporated by reference and found at: <https://www.clackamas.us/finance/terms.html>. Travel expense reimbursement is not in excess of the not to exceed consideration.

6. Contract Documents. This Contract consists of the following documents, which are listed in descending order of precedence and are attached and incorporated by reference, this Contract, Exhibit A, and Exhibit B. Unless explicitly agreed to by the parties in this Contract, any additional terms and conditions that may be contained in Exhibit A are void.

7. Contractor and District Contacts.

Contractor	District
Administrator: Roger Flint Phone: 509-994-2833 Email: rflint@parametrix.com	Administrator: TDB Phone: Email:

Payment information will be reported to the Internal Revenue Service (“IRS”) under the name and taxpayer ID number submitted. (See I.R.S. 1099 for additional instructions regarding taxpayer ID numbers.) Information not matching IRS records will subject Contractor payments to backup withholding.

ARTICLE II.

- 1. Access to Records.** Contractor shall maintain books, records, documents, and other evidence, in accordance with generally accepted accounting procedures and practices, sufficient to reflect properly all costs of whatever nature claimed to have been incurred and anticipated to be incurred in the performance of this Contract. District and their duly authorized representatives shall have access to the books, documents, papers, and records of Contractor, which are directly pertinent to this Contract for the purpose of making audit, examination, excerpts, and transcripts. Contractor shall maintain such books and records for a minimum of six (6) years, or such longer period as may be required by applicable law, following final payment and termination of this Contract, or until the conclusion of any audit, controversy or litigation arising out of or related to this Contract, whichever date is later.
- 2. Availability of Future Funds.** Any continuation or extension of this Contract after the end of the fiscal period in which it is written is contingent on a new appropriation for each succeeding fiscal period sufficient to continue to make payments under this Contract, as determined by the District in its sole administrative discretion.
- 3. Captions.** The captions or headings in this Contract are for convenience only and in no way define, limit, or describe the scope or intent of any provisions of this Contract.
- 4. Compliance with Applicable Law.** Contractor shall comply with all applicable federal, state and local laws, regulations, executive orders, and ordinances, as such may be amended from time to time.

5. **Counterparts.** This Contract may be executed in several counterparts (electronic or otherwise), each of which shall be an original, all of which shall constitute the same instrument.
6. **Governing Law.** This Contract, and all rights, obligations, and disputes arising out of it, shall be governed and construed in accordance with the laws of the State of Oregon and the ordinances of Clackamas County without regard to principles of conflicts of law. Any claim, action, or suit between District and Contractor that arises out of or relates to the performance of this Contract shall be brought and conducted solely and exclusively within the Circuit Court for Clackamas County, for the State of Oregon. Provided, however, that if any such claim, action, or suit may be brought in a federal forum, it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this section be construed as a waiver by the District of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. Contractor, by execution of this Contract, hereby consents to the personal jurisdiction of the courts referenced in this section.
7. **Indemnity, Responsibility for Damages.** Contractor shall be responsible for all damage to property, injury to persons, and loss, expense, inconvenience, and delay which may be caused by, or result from, the negligent act, or omission of Contractor, its subcontractors, agents, or employees. The Contractor agrees to indemnify and defend the District and Clackamas County, and their officers, elected officials, agents and employees from and against all claims, actions, losses, liabilities, including reasonable attorney and accounting fees, and all expenses incidental to the investigation and defense thereof, arising out of or based upon Contractor's negligent acts or omissions in performing under this Contract. Provided, however, that pursuant to ORS 30.140(4), Contractor's duty to defend obligations arising from or related to Contractor's professional negligence, or related to professional services provided by Contractor, are limited to reimbursement of reasonable defense costs (including reasonable attorney fees) of District and Clackamas County in an amount not to exceed the proportionate fault of Contractor, as determined by adjudication, alternative dispute resolution, or otherwise resolved by settlement agreement.

However, neither Contractor nor any attorney engaged by Contractor shall defend the claim in the name of District or Clackamas County ("County"), purport to act as legal representative of District or County, or settle any claim on behalf of District or County, without the approval of the Clackamas County Counsel's Office. District or County may assume their own defense and settlement at their election and expense.

8. **Independent Contractor Status.** The service(s) to be rendered under this Contract are those of an independent contractor. Although the District reserves the right to determine (and modify) the delivery schedule for the Work to be performed and to evaluate the quality of the completed performance, District cannot and will not control the means or manner of Contractor's performance. Contractor is responsible for determining the appropriate means and manner of performing the Work. Contractor is not to be considered an agent or employee of District for any purpose, including, but not limited to: (A) The Contractor will be solely responsible for payment of any Federal or State taxes required as a result of this Contract; and (B) This Contract is not intended to entitle the Contractor to any benefits generally granted to District employees, including, but not limited to, vacation, holiday and sick leave, other leaves with pay, tenure, medical and dental coverage, life and disability insurance, overtime, Social Security, Workers' Compensation, unemployment compensation, or retirement benefits.
9. **Insurance.** Contractor shall secure at its own expense and keep in effect during the term of the performance under this Contract the insurance required and minimum coverage indicated below. The insurance requirements outlined below do not in any limit the amount of scope of liability of Contractor under this Contract. Contractor shall provide proof of said insurance and name the District

and Clackamas County as an additional insureds on all required liability policies. Proof of insurance and notice of any material change should be submitted to the following address: Clackamas County Procurement Division, 2051 Kaen Road, Oregon City, OR 97045 or the County Contract Analyst.

Required - Workers Compensation: Contractor shall comply with the statutory workers' compensation requirements in ORS 656.017, unless exempt under ORS 656.027 or 656.126.
☒ Required – Commercial General Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per claim, with an annual aggregate limit of \$2,000,000 for Bodily Injury and Property Damage.
☒ Required – Professional Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence, with an annual aggregate limit of \$2,000,000 for damages caused by error, omission or negligent acts.
☒ Required – Automobile Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per accident for Bodily Injury and Property Damage.

The policy(s) shall be primary insurance as respects to the District. Any insurance or self-insurance maintained by the District shall be excess and shall not contribute to it. Any obligation that District agree to a waiver of subrogation is hereby stricken.

- 10. Limitation of Liabilities.** This Contract is expressly subject to the debt limitation of Oregon counties set forth in Article XI, Section 10, of the Oregon Constitution, and is contingent upon funds being appropriated therefore. Any provisions herein which would conflict with law are deemed inoperative to that extent. Except for liability arising under or related to Article II, Section 13 or Section 20 neither party shall be liable for (i) any indirect, incidental, consequential or special damages under this Contract or (ii) any damages of any sort arising solely from the termination of this Contract in accordance with its terms.
- 11. Notices.** Except as otherwise provided in this Contract, any required notices between the parties shall be given in writing by personal delivery, email, or mailing the same, to the Contract Administrators identified in Article 1, Section 6. If notice is sent to District, a copy shall also be sent to: Clackamas County Procurement, 2051 Kaen Road, Oregon City, OR 97045. Any communication or notice so addressed and mailed shall be deemed to be given five (5) days after mailing, and immediately upon personal delivery, or within 2 hours after the email is sent during District's normal business hours (Monday – Thursday, 7:00 a.m. to 6:00 p.m.) (as recorded on the device from which the sender sent the email), unless the sender receives an automated message or other indication that the email has not been delivered.
- 12. Ownership of Work Product.** All work product of Contractor that results from this Contract (the "Work Product") is the exclusive property of District. District and Contractor intend that such Work Product be deemed "work made for hire" of which District shall be deemed the author. If for any reason the Work Product is not deemed "work made for hire," Contractor hereby irrevocably assigns to District all of its right, title, and interest in and to any and all of the Work Product, whether arising from copyright, patent, trademark or trade secret, or any other state or federal intellectual property law or doctrine. Contractor shall execute such further documents and instruments as District may reasonably request in order to fully vest such rights in District. Contractor forever waives any and all rights relating to the Work Product, including without limitation, any and all rights arising under 17 USC § 106A or any other rights of identification of authorship or rights of approval, restriction or limitation on use or subsequent modifications. Notwithstanding the above, District shall have no rights in any pre-existing Contractor intellectual property provided to District by Contractor in the performance of this Contract except to copy, use and re-use any such Contractor intellectual property for District use only.

- 13. Representations and Warranties.** Contractor represents and warrants to District that (A) Contractor has the power and authority to enter into and perform this Contract; (B) this Contract, when executed and delivered, shall be a valid and binding obligation of Contractor enforceable in accordance with its terms; (C) Contractor shall at all times during the term of this Contract, be qualified, professionally competent, and duly licensed to perform the Work; (D) Contractor is an independent contractor as defined in ORS 670.600; and (E) the Work under this Contract shall be performed in accordance with the standard of professional skill and care required for a project of similar size, location, scope, and complexity, during the time in which the Work is being performed. The warranties set forth in this section are in addition to, and not in lieu of, any other warranties provided. The Contractor shall be responsible for the technical accuracy of its services and documents resulting therefrom, and District shall not be responsible for discovering deficiencies therein. The Contractor shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in information furnished by the District.
- 14. Survival.** All rights and obligations shall cease upon termination or expiration of this Contract, except for the rights and obligations set forth in Article II, Sections 1, 6, 7, 10, 12, 13, 14, 15, 17, 20, 21, 25, 27, 28 and 32, and all other rights and obligations which by their context are intended to survive. However, such expiration shall not extinguish or prejudice the District's right to enforce this Contract with respect to: (a) any breach of a Contractor warranty; or (b) any default or defect in Contractor performance that has not been cured.
- 15. Severability.** If any term or provision of this Contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Contract did not contain the particular term or provision held to be invalid.
- 16. Subcontracts and Assignments.** Contractor shall not enter into any subcontracts for any of the Work required by this Contract, or assign or transfer any of its interest in this Contract by operation of law or otherwise, without obtaining prior written approval from the District, which shall be granted or denied in the District's sole discretion. In addition to any provisions the District may require, Contractor shall include in any permitted subcontract under this Contract a requirement that the subcontractor be bound by this Article II, Sections 1, 7, 8, 13, 16, and 27 as if the subcontractor were the Contractor. District's consent to any subcontract shall not relieve Contractor of any of its duties or obligations under this Contract.
- 17. Successors in Interest.** The provisions of this Contract shall be binding upon and shall inure to the benefit of the parties hereto, and their respective authorized successors and assigns.
- 18. Tax Compliance Certification.** The Contractor shall comply with all federal, state and local laws, regulation, executive orders and ordinances applicable to this Contract. Contractor represents and warrants that it has complied, and will continue to comply throughout the duration of this Contract and any extensions, with all tax laws of this state or any political subdivision of this state, including but not limited to ORS 305.620 and ORS chapters 316, 317, and 318. Any violation of this section shall constitute a material breach of this Contract and shall entitle District to terminate this Contract, to pursue and recover any and all damages that arise from the breach and the termination of this Contract, and to pursue any or all of the remedies available under this Contract or applicable law.
- 19. Termination.** This Contract may be terminated for the following reasons: (A) by mutual agreement of the parties or by the District (i) for convenience upon thirty (30) days written notice to Contractor, or (ii) at any time the District fails to receive funding, appropriations, or other expenditure authority as solely determined by the District; or (B) if Contractor breaches any Contract provision or is declared insolvent, District may terminate after thirty (30) days written notice with an opportunity to cure.

Upon receipt of written notice of termination from the District, Contractor shall immediately stop performance of the Work. Upon termination of this Contract, Contractor shall deliver to District all documents, Work Product, information, works-in-progress and other property that are or would be deliverables had the Contract Work been completed. Upon District's request, Contractor shall surrender to anyone District designates, all documents, research, objects or other tangible things needed to complete the Work.

- 20. Remedies.** If terminated by the District due to a breach by the Contractor, then the District shall have any remedy available to it in law or equity. If this Contract is terminated for any other reason, Contractor's sole remedy is payment for the goods and services delivered and accepted by the District, less any setoff to which the District is entitled.
- 21. No Third Party Beneficiaries.** District and Contractor are the only parties to this Contract and are the only parties entitled to enforce its terms. Nothing in this Contract gives, is intended to give, or shall be construed to give or provide any benefit or right, whether directly, indirectly or otherwise, to third persons unless such third persons are individually identified by name herein and expressly described as intended beneficiaries of the terms of this Contract.
- 22. Time is of the Essence.** Time is a material consideration in the performance of all work by the Contractor under this Agreement. The Contractor shall complete its work and services within the agreed-upon schedule.
- 23. Foreign Contractor.** If the Contractor is not domiciled in or registered to do business in the State of Oregon, Contractor shall promptly provide to the Oregon Department of Revenue and the Secretary of State, Corporate Division, all information required by those agencies relative to this Contract. The Contractor shall demonstrate its legal capacity to perform these services in the State of Oregon prior to entering into this Contract.
- 24. Force Majeure.** Neither District nor Contractor shall be held responsible for delay or default caused by events outside the District or Contractor's reasonable control including, but not limited to, fire, terrorism, riot, acts of God, or war. However, Contractor shall make all reasonable efforts to remove or eliminate such a cause of delay or default and shall upon the cessation of the cause, diligently pursue performance of its obligations under this Contract.
- 25. Waiver.** The failure of District to enforce any provision of this Contract shall not constitute a waiver by District of that or any other provision.
- 26. Public Contracting Requirements.** Pursuant to the public contracting requirements contained in Oregon Revised Statutes ("ORS") Chapter 279B.220 through 279B.235, Contractor shall:
- a. Make payments promptly, as due, to all persons supplying to Contractor labor or materials for the prosecution of the work provided for in the Contract.
 - b. Pay all contributions or amounts due the Industrial Accident Fund from such Contractor or subcontractor incurred in the performance of the Contract.
 - c. Not permit any lien or claim to be filed or prosecuted against District on account of any labor or material furnished.
 - d. Pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
 - e. As applicable, the Contractor shall pay employees for work in accordance with ORS 279B.235, which is incorporated herein by this reference. The Contractor shall comply with the prohibitions set forth in ORS 652.220, compliance of which is a material element of this Contract, and failure to comply is a breach entitling District to terminate this Contract for cause.

- f. If the Work involves lawn and landscape maintenance, Contractor shall salvage, recycle, compost, or mulch yard waste material at an approved site, if feasible and cost effective.

27. No Attorney Fees. In the event any arbitration, action or proceeding, including any bankruptcy proceeding, is instituted to enforce any term of this Contract, each party shall be responsible for its own attorneys' fees and expenses.

28. Reserved.

29. Reserved.

30. Key Persons. Contractor acknowledges and agrees that a significant reason the District is entering into this Contract is because of the special qualifications of certain Key Persons set forth in the contract. Under this Contract, the District is engaging the expertise, experience, judgment, and personal attention of such Key Persons. Neither Contractor nor any of the Key Persons shall delegate performance of the management powers and responsibilities each such Key Person is required to provide under this Contract to any other employee or agent of the Contractor unless the District provides prior written consent to such delegation. Contractor shall not reassign or transfer a Key Person to other duties or positions such that the Key Person is no longer available to provide the District with such Key Person's services unless the District provides prior written consent to such reassignment or transfer.

31. Reserved.

32. Merger. THIS CONTRACT CONSTITUTES THE ENTIRE AGREEMENT BETWEEN THE PARTIES WITH RESPECT TO THE SUBJECT MATTER REFERENCED THEREIN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. NO AMENDMENT, CONSENT, OR WAIVER OF TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY ALL PARTIES. ANY SUCH AMENDMENT, CONSENT, OR WAIVER SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. CONTRACTOR, BY THE SIGNATURE HERETO OF ITS AUTHORIZED REPRESENTATIVE, IS AN INDEPENDENT CONTRACTOR, ACKNOWLEDGES HAVING READ AND UNDERSTOOD THIS CONTRACT, AND CONTRACTOR AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.

By their signatures below, the parties to this Contract agree to the terms, conditions, and content expressed herein.

Parametrix, Inc.

Water Environment Services



Authorized Signature

6/20/2025

Date

Signature

Date

Roger W. Flint Executive Vice President, Chief Operating Officer

Name / Title (Printed)

Name: _____

Title: _____

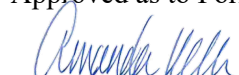
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Oregon Business Registry #

Approved as to Form:

FBC/Washington

FBC/Washington



6/26/2025

Entity Type / State of Formation

County Counsel

Date

EXHIBIT A
RFP 2025-01
Water Environment Services Engineering Master Contract
On-Call Engineering Services
Published January 27, 2025



CLACKAMAS
WATER
ENVIRONMENT
SERVICES



REQUEST FOR PROPOSALS #2025-01

FOR

**Water Environment Services Engineering Master Contract
On-Call Engineering Services**

BOARD OF COUNTY COMMISSIONERS

CRAIG ROBERTS, Chair

PAUL SAVAS, Commissioner

MELISSA FIRESIDE, Commissioner

MARTHA SCHRADER, Commissioner

BEN WEST, Commissioner

**Gary Schmidt
County Administrator**

**Ryan Rice
Contract Analyst**

PROPOSAL CLOSING DATE, TIME AND LOCATION

DATE: February 20, 2025

TIME: 2:00 PM, Pacific Time

PLACE: Email: <https://bidlocker.us/a/clackamascounty/BidLocker>

SCHEDULE

Request for Proposals Issued.....	January 27, 2025
Protest of Specifications Deadline.....	February 3, 2025, 5:00 PM, Pacific Time
Deadline to Submit Clarifying Questions.....	February 13, 2025, 5:00 PM, Pacific Time
Request for Proposals Closing Date and Time.....	February 20, 2025, 2:00 PM, Pacific Time
Deadline to Submit Protest of Award.....	Seven (7) days from the Intent to Award

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Section 1 – Notice of Request for Proposals
Section 2 – Instructions to Proposers
Section 3 – Scope of Work
Section 4 – Evaluation and Selection Criteria
Section 5 – Proposal Content (Including Proposal Certification)

SECTION 1 NOTICE OF REQUEST FOR PROPOSALS

Notice is hereby given that Water Environment Services (“WES”), through its Board of County Commissioners, will receive sealed Proposals per specifications until **2:00 PM, February 20, 2025** (“Closing”), to provide On-Call Engineering Services. No Proposals will be received or considered after that time.

RFP Documents can be downloaded from the state of Oregon procurement website (“OregonBuys”) at the following address <https://oregonbuys.gov/bsa/view/login/login.xhtml>, Document No. S-C01010-00012654.

Prospective Proposers will need to sign in to download the information and that information will be accumulated for a Plan Holder's List. Prospective Proposers are responsible for obtaining any Addenda, clarifying questions, and Notices of Award from OregonBuys. Sealed Proposals are to be emailed to <https://bidlocker.us/a/clackamascounty/BidLocker>.

Submitting Proposals: Bid Locker

Proposals will only be accepted electronically thru a secure online bid submission service, **Bid Locker**. *Email submissions to Clackamas County email addresses will no longer be accepted.*

- A. Completed proposal documents must arrive electronically via Bid Locker located at <https://bidlocker.us/a/clackamascounty/BidLocker>.
- B. Bid Locker will electronically document the date and time of all submissions. Completed documents must arrive by the deadline indicated in Section 1 or as modified by Addendum. **LATE PROPOSALS WILL NOT BE ACCEPTED.**
- C. Proposers must register and create a profile for their business with Bid Locker in order to submit for this project. It is free to register for Bid Locker.
- D. Proposers with further questions concerning Bid Locker may review the Vendor’s Guide located at <https://www.clackamas.us/how-to-bid-on-county-projects>.

Contact Information

Procurement Process and Technical Questions: Ryan Rice, rrice@clackamas.us

The Board of County Commissioners reserves the right to reject any and all Proposals not in compliance with all prescribed public bidding procedures and requirements, and may reject for good cause any and all Proposals upon the finding that it is in the public interest to do so and to waive any and all informalities in the public interest. In the award of the contract, the Board of County Commissioners will consider the element of time, will accept the Proposal or Proposals which in their estimation will best serve the interests of Clackamas County and will reserve the right to award the contract to the contractor whose Proposal shall be best for the public good.

Clackamas County encourages proposals from Minority, Women, and Emerging Small Businesses.

SECTION 2 INSTRUCTIONS TO PROPOSERS

Clackamas County (“County”) reserves the right to reject any and all Proposals received as a result of this RFP. County Local Contract Review Board Rules (“LCRB”) govern the procurement process for the County.

2.1 Modification or Withdrawal of Proposal: Any Proposal may be modified or withdrawn at any time prior to the Closing deadline, provided that a written request is received by the County Procurement Division Director, prior to the Closing. The withdrawal of a Proposal will not prejudice the right of a Proposer to submit a new Proposal.

2.2 Requests for Clarification and Requests for Change: Proposers may submit questions regarding the specifications of the RFP. Questions must be received in writing on or before 5:00 p.m. (Pacific Time), on the date indicated in the Schedule, at the Procurement Division address as listed in Section 1 of this RFP. Requests for changes must include the reason for the change and any proposed changes to the requirements. The purpose of this requirement is to permit County to correct, prior to the opening of Proposals, RFP terms or technical requirements that may be unlawful, improvident or which unjustifiably restrict competition. County will consider all requested changes and, if appropriate, amend the RFP. No oral or written instructions or information concerning this RFP from County managers, employees or agents to prospective Proposers shall bind County unless included in an Addendum to the RFP.

2.3 Protests of the RFP/Specifications: Protests must be in accordance with LCRB C-047-0730. Protests of Specifications must be received in writing on or before 5:00 p.m. (Pacific Time), on the date indicated in the Schedule, or within three (3) business days of issuance of any addendum, at the Procurement Division address listed in Section 1 of this RFP. Protests may not be faxed. Protests of the RFP specifications must include the reason for the protest and any proposed changes to the requirements.

2.4 Addenda: If any part of this RFP is changed, an addendum will be provided to Proposers that have provided an address to the Procurement Division for this procurement. It shall be Proposers responsibility to regularly check OregonBuys for any notices, published addenda, or response to clarifying questions.

2.5 Submission of Proposals: Proposals must be submitted in accordance with Section 5. All Proposals shall be legibly written in ink or typed and comply in all regards with the requirements of this RFP. Proposals that include orders or qualifications may be rejected as irregular. All Proposals must include a signature that affirms the Proposer’s intent to be bound by the Proposal (may be on cover letter, on the Proposal, or the Proposal Certification Form) shall be signed. If a Proposal is submitted by a firm or partnership, the name and address of the firm or partnership shall be shown, together with the names and addresses of the members. If the Proposal is submitted by a corporation, it shall be signed in the name of such corporation by an official who is authorized to bind the contractor. The Proposals will be considered by the County to be submitted in confidence and are not subject to public disclosure until the notice of intent to award has been issued.

No late Proposals will be accepted. Proposals submitted after the Closing will be considered late and will be returned unopened. Proposals may not be submitted by telephone or fax.

2.6 Post-Selection Review and Protest of Award: County will name the apparent successful Proposer in a Notice of Intent to Award published on OregonBuys. Identification of the apparent successful Proposer is procedural only and creates no right of the named Proposer to award of the contract. Competing Proposers shall be given seven (7) calendar days from the date on the Notice of Intent to Award to review the file at the Procurement Division office and file a written protest of award, pursuant to LCRB C-047-0740. Any award protest must be in writing and must be delivered by hand-delivery or mail to the address for the Procurement Division as listed in Section 1 of this RFP.

Only actual Proposers may protest if they believe they have been adversely affected because the Proposer would be eligible to be awarded the contract in the event the protest is successful. The basis of the written protest must

be in accordance with ORS 279B.410 and shall specify the grounds upon which the protest is based. In order to be an adversely affected Proposer with a right to submit a written protest, a Proposer must be next in line for award, i.e. the protester must claim that all higher rated Proposers are ineligible for award because they are non-responsive or non-responsible.

County will consider any protests received and:

- a. reject all protests and proceed with final evaluation of, and any allowed contract language negotiation with, the apparent successful Proposer and, pending the satisfactory outcome of this final evaluation and negotiation, enter into a contract with the named Proposer; OR
- b. sustain a meritorious protest(s) and reject the apparent successful Proposer as nonresponsive, if such Proposer is unable to demonstrate that its Proposal complied with all material requirements of the solicitation and Oregon public procurement law; thereafter, County may name a new apparent successful Proposer; OR
- c. reject all Proposals and cancel the procurement.

2.7 Acceptance of Contractual Requirements: Failure of the selected Proposer to execute a contract and deliver required insurance certificates within ten (10) calendar days after notification of an award may result in cancellation of the award. This time period may be extended at the option of County.

2.8 Public Records: Proposals are deemed confidential until the “Notice of Intent to Award” letter is issued. This RFP and one copy of each original Proposal received in response to it, together with copies of all documents pertaining to the award of a contract, will be kept and made a part of a file or record which will be open to public inspection. If a Proposal contains any information that is considered a **TRADE SECRET** under ORS 192.345(2), **SUCH INFORMATION MUST BE LISTED ON A SEPARATE SHEET CAPABLE OF SEPARATION FROM THE REMAINING PROPOSAL AND MUST BE CLEARLY MARKED WITH THE FOLLOWING LEGEND:**

“This information constitutes a trade secret under ORS 192.345(2), and shall not be disclosed except in accordance with the Oregon Public Records Law, ORS Chapter 192.”

The Oregon Public Records Law exempts from disclosure only bona fide trade secrets, and the exemption from disclosure applies only “unless the public interest requires disclosure in the particular instance” (ORS 192.345). Therefore, non-disclosure of documents, or any portion of a document submitted as part of a Proposal, may depend upon official or judicial determinations made pursuant to the Public Records Law.

2.9 Investigation of References: County reserves the right to investigate all references in addition to those supplied references and investigate past performance of any Proposer with respect to its successful performance of similar services, its compliance with specifications and contractual obligations, its completion or delivery of a project on schedule, its lawful payment of subcontractors and workers, and any other factor relevant to this RFP. County may postpone the award or the execution of the contract after the announcement of the apparent successful Proposer in order to complete its investigation.

2.10 RFP Proposal Preparation Costs and Other Costs: Proposer costs of developing the Proposal, cost of attendance at an interview (if requested by County), or any other costs are entirely the responsibility of the Proposer, and will not be reimbursed in any manner by County.

2.11 Clarification and Clarity: County reserves the right to seek clarification of each Proposal, or to make an award without further discussion of Proposals received. Therefore, it is important that each Proposal be submitted initially in the most complete, clear, and favorable manner possible.

2.12 Right to Reject Proposals: County reserves the right to reject any or all Proposals or to withdraw any item from the award, if such rejection or withdrawal would be in the public interest, as determined by County.

2.13 Cancellation: County reserves the right to cancel or postpone this RFP at any time or to award no contract.

2.14 Proposal Terms: All Proposals, including any price quotations, will be valid and firm through a period of one hundred and eighty (180) calendar days following the Closing date. County may require an extension of this firm offer period. Proposers will be required to agree to the longer time frame in order to be further considered in the procurement process.

2.15 Oral Presentations: At County's sole option, Proposers may be required to give an oral presentation of their Proposals to County, a process which would provide an opportunity for the Proposer to clarify or elaborate on the Proposal but will in no material way change Proposer's original Proposal. If the evaluating committee requests presentations, the Procurement Division will schedule the time and location for said presentation. Any costs of participating in such presentations will be borne solely by Proposer and will not be reimbursed by County. **Note:** Oral presentations are at the discretion of the evaluating committee and may not be conducted; therefore, **written Proposals should be complete.**

2.16 Usage: It is the intention of County to utilize the services of the successful Proposer(s) to provide services as outlined in the below Scope of Work.

2.17 Review for Responsiveness: Upon receipt of all Proposals, the Procurement Division or designee will determine the responsiveness of all Proposals before submitting them to the evaluation committee. If a Proposal is incomplete or non-responsive in significant part or in whole, it will be rejected and will not be submitted to the evaluation committee. County reserves the right to determine if an inadvertent error is solely clerical or is a minor informality which may be waived, and then to determine if an error is grounds for disqualifying a Proposal. The Proposer's contact person identified on the Proposal will be notified, identifying the reason(s) the Proposal is non-responsive. One copy of the Proposal will be archived and all others discarded.

2.18 RFP Incorporated into Contract: This RFP will become part of the Contract between County and the selected contractor(s). The contractor(s) will be bound to perform according to the terms of this RFP, their Proposal(s), and the terms of the Sample Contract.

2.19 Communication Blackout Period: Except as called for in this RFP, Proposers may not communicate with members of the Evaluation Committee or other County employees or representatives about the RFP during the procurement process until the apparent successful Proposer is selected, and all protests, if any, have been resolved. Communication in violation of this restriction may result in rejection of a Proposer.

2.20 Prohibition on Commissions and Subcontractors: County will contract directly with persons/entities capable of performing the requirements of this RFP. Contractors must be represented directly. Participation by brokers or commissioned agents will not be allowed during the Proposal process. Contractor shall not use subcontractors to perform the Work unless specifically pre-authorized in writing to do so by the County. Contractor represents that any employees assigned to perform the Work, and any authorized subcontractors performing the Work, are fully qualified to perform the tasks assigned to them, and shall perform the Work in a competent and professional manner. Contractor shall not be permitted to add on any fee or charge for subcontractor Work. Contractor shall provide, if requested, any documents relating to subcontractor's qualifications to perform required Work.

2.21 Ownership of Proposals: All Proposals in response to this RFP are the sole property of County, and subject to the provisions of ORS 192.410-192.505 (Public Records Act).

2.22 Clerical Errors in Awards: County reserves the right to correct inaccurate awards resulting from its clerical errors.

2.23 Rejection of Qualified Proposals: Proposals may be rejected in whole or in part if they attempt to limit or modify any of the terms, conditions, or specifications of the RFP or the Sample Contract.

2.24 Collusion: By responding, the Proposer states that the Proposal is not made in connection with any competing Proposer submitting a separate response to the RFP, and is in all aspects fair and without collusion or fraud. Proposer also certifies that no officer, agent, elected official, or employee of County has a pecuniary interest in this Proposal.

2.25 Evaluation Committee: Proposals will be evaluated by a committee consisting of representatives from County and potentially external representatives. County reserves the right to modify the Evaluation Committee make-up in its sole discretion.

2.26 Commencement of Work: The contractor shall commence no work until all insurance requirements have been met, the Protest of Awards deadline has been passed, any protest have been decided, a contract has been fully executed, and a Notice to Proceed has been issued by County.

2.27 Best and Final Offer: County may request best and final offers from those Proposers determined by County to be reasonably viable for contract award. However, County reserves the right to award a contract on the basis of initial Proposal received. Therefore, each Proposal should contain the Proposer's best terms from a price and technical standpoint. Following evaluation of the best and final offers, County may select for final contract negotiations/execution the offers that are most advantageous to County, considering cost and the evaluation criteria in this RFP.

2.28 Nondiscrimination: The successful Proposer agrees that, in performing the work called for by this RFP and in securing and supplying materials, contractor will not discriminate against any person on the basis of race, color, religious creed, political ideas, sex, age, marital status, sexual orientation, gender identity, veteran status, physical or mental handicap, national origin or ancestry, or any other class protected by applicable law.

2.29 Intergovernmental Cooperative Procurement Statement: Pursuant to ORS 279A and LCRB, other public agencies shall have the ability to purchase the awarded goods and services from the awarded contractor(s) under terms and conditions of the resultant contract. Any such purchases shall be between the contractor and the participating public agency and shall not impact the contractor's obligation to the County. Any estimated purchase volumes listed herein do not include other public agencies and County makes no guarantee as to their participation. Any Proposer, by written notification included with their Proposal, may decline to extend the prices and terms of this solicitation to any and/or all other public agencies. County grants to any and all public serving governmental agencies, authorization to purchase equivalent services or products described herein at the same submitted unit bid price, but only with the consent of the contractor awarded the contract by the County.

SECTION 3 SCOPE OF WORK

3.1. INTRODUCTION

Clackamas County on behalf of Clackamas Water Environment Services (“District”) is seeking Proposals from vendors to provide On-Call Engineering Services. This Contract is on an “on-call” or “as-needed basis” for work. When the District wishes Contractor to perform the Work, the District will submit an official County Task Order form (found at: <https://www.clackamas.us/finance/terms.html>) detailing the scope of work, the entity on whose behalf the Work will be performed, and the total compensation, pursuant to the fee schedule set forth in this contract. Contractor may not perform work until the County Task Order form has been executed by the parties. In the event a project authorized under the County Task Order extends beyond the expiration of this contract, the County Task Order shall remain in effect under the terms of this contract until the completion or expiration of the authorized task.

No task order shall modify or amend the terms and conditions of this contract.

Please direct all Technical/Specifications or Procurement Process Questions to the indicated representative referenced in the Notice of Request for Proposals and note the communication restriction outlined in Section 2.19.

3.2 BACKGROUND

Clackamas Water Environment Services (WES, District), an intergovernmental partnership formed pursuant to ORS 190, owns and operates over 340 miles of wastewater conveyance infrastructure and five wastewater treatment facilities serving more than 150,000 residents. WES operates and maintains this critical infrastructure in order to collect and treat waste and storm water. The engineering services resulting from this RFP will play a vital role in ensuring the continuous and safe operation of WES facilities, and ensure that WES goals are met as part of the adopted Capital Improvement Plan, Facility Plans, Sanitary Sewer System Master Plan, and Storm System Master Plan. Access to those plans can be found here: <https://www.clackamas.us/wes/wes-projects>.

3.3. SCOPE OF WORK

3.3.1. Scope:

Water Environment Services (District) wishes to select several consultants to provide services in one or more of the following categories:

SCOPE OF SERVICES

1) Wastewater Conveyance and Treatment Engineering

Wastewater engineering consultants to provide professional engineering services in support of projects involving the planning, design, and construction of wastewater treatment facilities, treatment processes, pump stations and force mains, gravity conveyance systems, and related facilities.

2) Water Resources Engineering

Water resources engineering to provide management, development, and conservation of water resources to ensure their sustainability and availability. It involves the design and implementation of systems for stormwater, water recovery, and sustainable watershed management.

3) Engineering Construction Services

Construction services to provide management and inspection of construction projects to ensure they are completed efficiently and safely. It involves overseeing the construction process, which includes, but is not limited to: project management, attending meetings on WES' behalf, review of work/inspection services, independent testing, survey, regulation compliance, contractor coordination, pay application support, substantial and final completion, RFI's, document management, and startup/commissioning.

4) Wastewater Process Engineering and Operational Support

Engineering services for wastewater treatment process engineering and operational support include providing expert consultation and technical assistance on an as-needed basis to optimize treatment processes and ensure compliance with regulatory requirements. Tasks may include evaluating plant performance, troubleshooting operational issues, developing process improvement strategies, preparing technical reports, and conducting data analysis to enhance efficiency and reliability. Additional responsibilities involve recommending equipment upgrades, reviewing and designing process modifications, and offering training to operational staff. The service provider must also be available to respond promptly to urgent operational challenges and collaborate with stakeholders to maintain continuous and effective treatment operations.

Firms may submit a Statement of Qualifications (SOQ) for one or all categories. WES will assess the submitted SOQs and select the most qualified firm(s) for each category. Each selected firm will enter into a Master Contract and will be eligible to provide services in support of WES tasks, initiatives and projects under the terms of the Contract. The specific work to be performed under these Master

Contracts will be defined, budgeted, and scheduled on a task-by-task basis through Task Order sub-agreements.

Interested firms must submit SOQs. A single SOQ is required for each category the consultant is applying. Each SOQ must apply to only one company; no "teaming" of companies is permitted.

WES may reject any SOQ not in compliance with all prescribed procedures and requirements, and may cancel this solicitation or reject, for good cause, any or all SOQs upon a finding that it is in the public's best interest to do so.

3.3.2. Term of Contract:

The term of the contract shall be from the effective date through **June 30, 2030**.

3.3.3. Sample Contract: Submission of a Proposal in response to this RFP indicates Proposer's willingness to enter into a contract containing substantially the same terms (including insurance requirements) of the sample contract identified below. No action or response to the sample contract is required under this RFP. Any objections to the sample contract terms should be raised

in accordance with Paragraphs 2.2 or 2.3 of this RFP, pertaining to requests for clarification or change or protest of the RFP/specifications, and as otherwise provided for in this RFP. This RFP and all supplemental information in response to this RFP will be a binding part of the final contract.

The applicable Sample Personal Services Contract for this RFP can be found at <https://www.clackamas.us/finance/terms.html>.

Personal Services Contract (unless checked, item does not apply)

The following paragraphs of the Professional Services Contract will be applicable:

- ☐ Article I, Paragraph 5 – Travel and Other Expense is Authorized
- ☐ Article II, Paragraph 27 – Confidentiality
- ☐ Article II, Paragraph 28 – Criminal Background Check Requirements
- ☒ Article II, Paragraph 29 – Key Persons
- ☒ Exhibit A – On-Call Provision

The following insurance requirements will be applicable:

- ☒ Commercial General Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence, with an annual aggregate limit of \$2,000,000 for Bodily Injury and Property Damage.
- ☒ Professional Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence, with an annual aggregate limit of \$2,000,000 for damages caused by error, omission or negligent acts.
- ☒ Automobile Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence for Bodily Injury and Property Damage.
- ☐ Cyber Liability: combined single limit, or the equivalent, of not less than \$1,000,000 per occurrence for network security (including data breach), privacy, interruption of business, media liability, and errors and omissions

Additional Personal Services Contract Terms:

Max Multiplier: 3.15

Rate Cap: \$260.00

Technical Expert: Negotiated.

Subcontractor Markup: 5%

Expenses Markup: 0%

Accounting, Technology and Safety program charges are considered to be business expenses and included in the multiplier.

SECTION 4 EVALUATION PROCEDURE

- 4.1** An evaluation committee will review all Proposals that are initially deemed responsive and they shall rank the Proposals in accordance with the below criteria. The evaluation committee may recommend an award based solely on the written responses or may request Proposal interviews/presentations. Interviews/presentations, if deemed beneficial by the evaluation committee, will consist of the highest scoring Proposers. The invited Proposers will be notified of the time, place, and format of the interview/presentation. Based on the interview/presentation, the evaluation committee may revise their scoring.

Written Proposals must be complete and no additions, deletions, or substitutions will be permitted during the interview/presentation (if any). The evaluation committee will recommend award of a contract to the final County decision maker based on the highest scoring Proposal. The County decision maker reserves the right to accept the recommendation, award to a different Proposer, or reject all Proposals and cancel the RFP.

Proposers are not permitted to directly communicate with any member of the evaluation committee during the evaluation process. All communication will be facilitated through the Procurement representative.

4.2 Evaluation Criteria

Category	Points available:
Firm Resources	0-10
Local Experience	0-35
Project Team	0-40
Approach	0-15
Available points	0-100

- 4.3** Once a selection has been made, the Proposer will be required to submit its proposed fees for completion of the project. The proposed fees must be on a time and material basis with a not to exceed for each phase of the work. The proposed fees must be reasonable and fair to the County, as determined solely by the County.

During negotiation, the County may require any additional information it deems necessary to clarify the approach and understanding of the requested services. Any changes agreed upon during contract negotiations will become part of the final contract. The negotiations will identify a level of work and associated fee that best represents the efforts required. If the County is unable to come to terms with the highest scoring Proposer, negotiations shall be terminated and negotiations will begin with the next highest scoring Proposer. If the resulting contract contemplates multiple phases and the County deems it is in its interest to not authorize any particular phase, it reserves the right to return to this solicitation and commence negotiations with the next highest ranked Proposer to complete the remaining phases.

SECTION 5 PROPOSAL CONTENTS

5.1. Vendors must observe submission instructions and be advised as follows:

5.1.1. Complete Proposals must be emailed to <https://bidlocker.us/a/clackamascounty/BidLocker>. The subject line of the email must identify the RFP title. Proposers are encouraged to contact Procurement to confirm receipt of the Proposal.

5.1.2. County reserves the right to solicit additional information or Proposal clarification from the vendors, or any one vendor, should the County deem such information necessary.

5.1.3. The Proposal's Statements of Qualifications (SOQ) consists of the proposer's Firm Resources, Local Experience, Project Team, and Approach, as defined below in sections 5.3, 5.4, 5.5 and 5.6 respectively. To maintain the fairness and integrity of the selection process, limit the entire SOQ to the following page limit requirements:

- Limit entire SOQ for each category to 10 pages (five double-sided sheets of paper).
- Use 8 ½ x 11 paper size, in a minimum of 12 pt. font, with one-inch margins.
- Blank pages, cover letter, section separators, resumes, and the Proposal Certification do not count towards the SOQ page limit.

Provide the following information in the order in which it appears below:

5.2. Introduction:

- a. Indicate the complete legal name, address, and telephone numbers (voice and fax) of your company.
- b. Provide the name and telephone number of the contact person for your SOQ.
- c. Provide the name and title of the person who is legally authorized to sign the Master Contract, if it is awarded to your firm.
- d. State that your SOQ will be valid for a period of ninety days.
- e. State the categories covered by the SOQ.

5.3. Firm Resources (10 Points):

Provide a profile of your firm and the firm-wide resources that will be available to support the performance of the work. Provide the firm's length of time in business, number of employees, and the locations of key offices supporting the project. Describe the firm's overall experience with providing professional services. Provide a brief profile of the firm and available firm resources.

5.4. Local Experience (35 Points):

Describe your company's local (Pacific Northwest Region) experience in performing the services you are proposing. Describe similar services your company has performed for a minimum of three local customers in the past five years and include the names and telephone numbers for contact persons for each of these customers. District will use the information required in this paragraph, along with the District's prior experience with the consultant, to evaluate the Local Experience selection criterion.

5.5. Project Team (40 Points):

Describe your proposed team's capability to perform the services within the category. Include the number of employees who are available to perform the work and their qualifications and level of expertise. Describe any specialized equipment or software your company owns that would be used in performing the work. Describe

specific skills and experience of key staff that provide the professional services outlined in the categories section of the RFP. Provide resumes for key staff that will have responsibility for the work. (The resumes should be included in the Appendix.) List any licenses, certifications or accreditations your company or staff holds that are relevant to the services to be performed.

5.6. Approach (15 Points)

Describe your company's approach to providing the on-call services. Describe how projects will be managed. WES will use the information required in this paragraph to evaluate the "Approach" selection criterion.

5.7 Appendices

Include resumes for staff that will be responsible for performing the proposed services, up to 12 pages in this appendix.

5.8 Completed Proposal Certification (see the below form).

EXHIBIT B
CONTRACTOR'S PROPOSAL



Statement of Qualifications | February 20, 2025

WES ENGINEERING MASTER CONTRACT ON-CALL ENGINEERING SERVICES **Wastewater Conveyance and Treatment Engineering**



February 20, 2025

Clackamas County Water Environmental Services (WES)

Submitted via <https://bidlocker.us/a/clackamascounty/BidLocker>

RE: Proposal #2025-01: WES Engineering Master Contract On-Call Engineering Services
Category 1: Wastewater Conveyance and Treatment Engineering

Dear Selection Committee Members:

Clackamas WES operates and maintains critical infrastructure for 150,000 residents throughout greater Clackamas County. A reliable and efficient wastewater system maintains a high quality of life and provides services to live, work, and thrive in the region. This on-call contract will provide engineering services in planning, design, and construction of wastewater assets throughout your system. Parametrix provides excellent wastewater engineering services with decades of experience designing and implementing state-of-the-art conveyance and treatment systems. Our multidisciplinary team will provide tailored solutions that meet your needs as well as meet regulatory compliance, operational efficiency, and environmental stewardship. Parametrix offers:

Extensive experience with on-call contracts, spanning five decades, for dozens of local and regional agencies with similar challenges. Our experience allows our team to adjust resourcing needs and retain specialized expertise to manage multiple, simultaneous projects of various complexity and size.

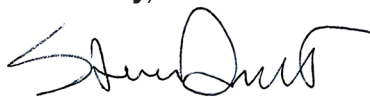
Delivery of high-quality, accurate deliverables for planning, design and construction documents. Parametrix conducts QC reviews of all documents prior to submittal. These reviews focus on project issues that can impact your costs, schedule and risk. We document our QC reviews with track changes and markups that are available for your review and resolutions. Our focus on QC efforts maintains project progress, avoiding costly rework and unnecessary delays.

A commitment to responsive service.

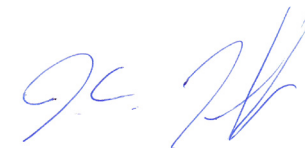
We are committed to supporting you with the best services possible. Our team has provided wastewater conveyance and treatment engineering to municipalities and water/wastewater districts for over 50 years. Our team includes local staff supported by hundreds of additional Puget Sound area employees. We bring experienced, dedicated resources for on-time and on-budget delivery. We will help you meet your project needs and communicate throughout each task's life cycle.

We are excited to work as an extension of your staff to deliver tasks under this on-call contract.

Sincerely,



Steven Drangsholt, PE, PMP
Project Manager
sdrangsholt@parametrix.com



JC Hungerford, PE
Principal-in-Charge/Signatory
jhungerford@parametrix.com

Company information:

Parametrix, Inc.
5 SE Martin Luther King Jr.
Blvd. Suite 400, Portland, OR
97214
PH: 503.233.2400
Fax: 206.649.4354

Contact Person for SOQ:

Steven Drangsholt,
425.577.9757

Authorized Signatory:

JC Hungerford, Water Division
Manager, 253.604.6630

This SOQ is valid for 90 days.

Category: Wastewater
Conveyance and Treatment
Engineering

1. Firm Resources

Parametrix Overview

From offices throughout the Pacific Northwest, Parametrix provides services in wastewater treatment and conveyance systems. We are committed to providing high-quality, cost-effective solutions. Parametrix's similar experience in wastewater infrastructure provides WES with innovative and sustainable solutions throughout the project lifecycle. Within the Portland-Metro area, Our team is delivering engineering services through standalone projects and on-calls for clients including Water Environment Services (WES), City of Portland Bureau of Environmental Services (BES), Clean Water Services (CWS) and Clark Region Water and Wastewater District (CRWWD).

Wastewater Treatment Facilities

Parametrix excels in planning, design, and construction for wastewater treatment facilities, making sure that each project meets regulatory requirements, operates efficiently, and serves the community. By leveraging state-of-the-art technology and innovative design principles, Parametrix creates facilities that are functional and adaptable to future needs.

Treatment Processes

Parametrix's expertise extends to design and implementation of treatment processes that enhance the efficiency and effectiveness of wastewater

facilities. We design systems that incorporate cutting-edge technologies such as MBR, UV disinfection, and nutrient removal processes. Our team is leading the design of the WES Kellogg Creek WRRF UV disinfection upgrades, which will improve energy efficiency, treatment capacity, and O&M activities.

Pump Stations and Force mains

We design pump stations that are energy-efficient, reliable, and capable of handling varying flow rates. Force mains are engineered to withstand the operating and transient pressures of wastewater conveyance, ensuring durability and longevity.

Parametrix oversees construction and commissioning of pump stations and force mains so that they are built to specifications and function as intended.

Gravity Conveyance Systems

Parametrix is experienced in the design and construction of gravity conveyance systems. We carefully plan the alignment and grading of gravity conveyance systems to optimize hydraulics and minimize cost and construction risk.

Related Facilities

Parametrix also designs and constructs related infrastructure, such as electrical improvements, odor control/HVAC systems,

and storage tanks. Parametrix's comprehensive services help all components of the wastewater infrastructure work together to provide reliable and efficient service.

Resources

Background of the Company. Parametrix has served public clients since our founding in 1969, including for more than 20 Oregon county governments. We are proud to be a part of building the communities in which we live and work.

Size of Staff. Parametrix has more than 850 employees companywide, most based in the Northwest, offering the depth of resources to meet shifting project demands. Our Portland office includes 130 professionals.

Location of Key Offices. We will deliver services from our Portland, Boise, and Seattle offices. Our Portland office is just 20 minutes from the Clackamas County Development Services Building. Our proximity to and familiarity with WES, together with the established relationships, will facilitate clear communication.

55⁺

YEARS
Serving
Our Clients



850⁺
FIRM-WIDE STAFF

50⁺

Staff to Support
Wastewater
Conveyance
and Treatment



180⁺
STAFF IN
OREGON

2. Local Experience

The following examples are on-call projects Parametrix has completed or are in progress. These services are within the last 5 years and best characterize our ability to provide on-call services on time, within budget, and with quality deliverables.

Treatment On-Call | City of Portland BES | Portland, OR

DATES: 2021–Ongoing

*REFERENCE: Matt Hewitt, 503.823.2902
matt.hewitt@portlandoregon.gov*

Parametrix supports BES with projects at the CBWTP through on-call services. The projects identified range span planning to design activities and a range of topics from asset replacement to process improvements.

CBWTP CEPT Improvements for pH

Compliance. The Parametrix team is evaluating improvements to the CEPT wet weather treatment system to improve compliance with effluent pH limits. Our team is providing analysis of operating data, laboratory testing and pilot testing plans and analysis, and recommendations for additional or alternative chemicals. The project features significant collaboration with BES staff to perform pilot testing and deliver helpful recommendations.

CBWTP HW & WWIPS VFD

Replacement. Parametrix evaluated the replacement of VFDs for two facilities at CBWTP for system reliability, located at the HW facility and WWIPS. Evaluation also accounted for the removal of the backup soft starters, which have not been in use and will be demolished. Evaluation also accounted for replacing line disconnects at the HW facility, enclosure replacement and preparing an arc flash short circuit, and coordinating study for HW and WWIPS pump stations from feeder breakers at the switchgear to the VFD enclosures. New SCADA connected meters will be installed for remote monitoring and recording energy usage by the HW influent pumps and WWIPS. Replacing the seal water flow switches with seal water flow meters are integrated for continuous monitoring of seal water flow and alarm on changes in flow versus a single point alarm associated with the flow switch. The existing switches have experienced failures, and replacing will improve reliability. Parametrix engaged with BES throughout each step and through the design phases to provide replacements that bring improved reliability.

CBWTP Process Monitoring

Improvements. This project investigates technology alternatives for select instruments, produces a technical design package, and provides engineering support during

construction for plan instrumentation. Areas of investigation include recycle stream monitoring, biogas RIN credit generation, and secondary process and WWCL performance monitoring. Key tasks include providing a memo describing the recommended and optional instrumentation for BES to choose from, providing detailed design for installation in potentially difficult locations, and supporting BES staff in best understanding the O&M needs of instrumentation. Throughout, we coordinate closely with BES staff to best satisfy their needs and incorporate their expertise and feedback.

Price Agreement Pump Station Improvements (PAPSI) On-Call | Portland BES | Portland, OR

DATES: 2020–Ongoing

*REFERENCE: Aaron Lawler, 503.823.2476
aaron.lawler@portlandoregon.gov*

Parametrix has led BES projects for two decades. Our history includes delivering over 15 pump station projects through previous on-call contracts. Our team brings lessons learned from our recent task order management to scale up delivery and capability to deliver a dozen pump station projects concurrently. We completed, with BES stakeholders, successful alternatives evaluation processes, leading to significant cost savings and designs that reflect the

needs of operations and maintenance staff.

A large focus of the PAPS program is distributing knowledge between multiple ongoing tasks. To efficiently share information, the team uses issues and decision logs, an overall PAPS log, and several project-specific logs. Questions raised early in a new task have answers backed from previous decisions. The following projects are example efforts from this on-call contract.

Elk Rock Pump Station Improvements.

This pump station has been in service since 1981 and is nearing the end of its 50-year design life. BES performed an assessment in 2005 that revealed that a majority of the nearby collection system has sufficient capacity to convey projected flows, but the capacity of the major pump stations, including Elk Rock, will be exceeded by the estimated 2025 flows. Parametrix completed an alternatives analysis task that included survey, geotechnical, environmental, and structural investigations to select design alternatives. Parametrix has completed design activities (30/60/90/ final) and will provide services during construction.

101st Avenue PS Upgrade. Parametrix is assessing this pump station for future pump replacement and possible new wet well construction. The team uses a City-provided Asset Management

Systems (AMS) Technical Memo to confirm the current wet well capacity and to size a possible new wet well. Existing as-builts and the AMS model were used to create a hydraulic model of the station and its associated force main in AFT Fathom to confirm pump sizing and AFT Impulse to model transient (water hammer) events. The project will require the replacement of nearly all mechanical equipment, such as the pumps and odor control system, repair or replacement of the existing structures, replacement of the existing retaining wall, and replacement of the existing generator. The upgrades will convert the current package pump station to use submersible pumps within a new wet well.

PS Backup Controller Replacement.

Parametrix prepared drawings and specifications for demolition of existing controllers, power and communication wiring, associated panels, and equipment and installation of the City-selected Yokogawa controllers and associated equipment at five pump stations. The team developed an Alternatives Analysis Technical Memorandum to provide options for construction sequence and approaches to assist with minimizing the time a station's backup controller would be offline.

Ankeny Forcemain Emergency

Replacement. Project tasks included design and hydraulic transient analysis on the 30-inch and 42-inch force mains to determine maximum surge and minimum vacuum pressures to inform cured-in-place pipe design parameters for this fast-paced, emergency repair project.

Old Swan Island PS Upgrade. This project includes alternatives analysis for mechanical improvements, geotechnical studies, and structural investigations to allow for the selection of design alternatives.

The project includes evaluation of alternatives for pump station replacement and relocation. The alternatives include replace in kind, convert to a submersible pump wet well at the existing location, and construct a new submersible pump station.

Treatment On-Call | CWS | Hillsboro, OR

DATES: 2022-Ongoing

*REFERENCE: Michael Glass, 503.547.8176
glassm@cleanwaterservices.org*

Cedar Street PS Improvements. The pump station uses two submersible pumps (5 hp each), with single-phase power, to convey wastewater with a rated capacity of 150 gpm at 33 feet of head. To improve reliability, Forest Grove Light and Power will provide three-phase power to the station. The addition of three-phase power requires new pumps,

electrical/control equipment and a new standby generator.

Parametrix is leading design for these improvements, including replacement of pumps, piping and valves, replacement of the standby generator, and site improvements for improved O&M.

During construction, the PS will need to remain in operation with sufficient provisions planned and designed to maintain wastewater conveyance.

Wastewater Engineering On-Call Services | CRWWD | Vancouver, WA

DATES: 2021-Ongoing

*REFERENCE: Dale Lough, 360.993.8856
dlough@crwwd.com*

Parametrix has performed several tasks under an on-call and three separately contracted tasks over the course of 3 years. The tasks have included pipe condition and assessment, design, and alternative analysis reports for sewer linear infrastructure.

Glenwood Pump Station Forcemain ARV Repair. Parametrix is providing design for upgrades to the Glenwood Pump Station to address deficiencies in the system of air release and vacuum relief valves protecting the 2-mile-long Glenwood Pump Station force main, which was constructed in 1996. The alternative analysis proposed upgrades at the pump station for installation of

two surge tanks, installation of new valves at four locations on the force main, and decommissioning of all original valves. Parametrix will provide design services through final design and bid support through contractor selection.

NW 15th/NW 17th/NW 94th.

Parametrix performed an alternatives analysis for the rehabilitation and/or replacement of 10,000 LF of 8-inch to 12-inch sanitary gravity sewer.

NE 29th Avenue Sewer Lateral Repair.

This project replaced failing residential sewer laterals located outside of the District's sewer easement. Parametrix provided condition assessment, proposed a new alignment, prepared construction documents, and assisted with construction management. Design through construction took 7 months.

Discovery Corridor Wastewater Transmission System Phase 2A.

Parametrix is providing design of pump station improvements as part of the Discovery Corridor Wastewater Transmission System Phase 2A project. The project will increase pumping capacity at three pump stations, improve monitoring capabilities in specific force mains (Pioneer Canyon PS), replace equipment that has reached the end of its useful life, improve operational reliability, and extend the working life of equipment at each station. Each of the three stations required

process mechanical, electrical, and instrumentation improvements. All three stations had their existing VFDs replaced for a total of seven new VFDs and replacement of several VFD cabinets. Individual bypass and erosion and sediment control plans were also created for each station. The project is currently entering the construction phase for all three pump stations.

On-Call Services Contract | LOTT Clean Water Alliance (LOTT) | Olympia, WA

DATES: 1995-Ongoing

*REFERENCE: Matt Kennelly, 360.528.5750,
mattkennelly@lottcleanwater.org*

For over 30 years, Parametrix has held multiple consecutive on-call contracts for LOTT, which treats wastewater and produces reclaimed water for three Washington cities—Lacey, Olympia, and Tumwater. Projects include the following:

Sludge Dewatering System Upgrade.

This project installed grinders, replaced the polymer system, and relocated and upgraded the operator facilities and lab, among other improvements.

UV Disinfection Upgrades. Parametrix replaced the outdated horizontal rack UV disinfection system with an incline rack UV system. The team also replaced the motor control centers for final effluent pumping. The project increased capacity by 20 mgd while reducing power consumption by 30%.

Service Entrance Switchgear.

Parametrix provided design and CM services to replace the 12.47kV service entrance switchgear being fed by two separate utility feeds.

Wastewater Pump Stations Pump Replacement Design and Construction Services | City of Bellevue/Brown & Caldwell | Bellevue, WA

DATES: 2018-2019 (Design); 2019-2020 (SDC)

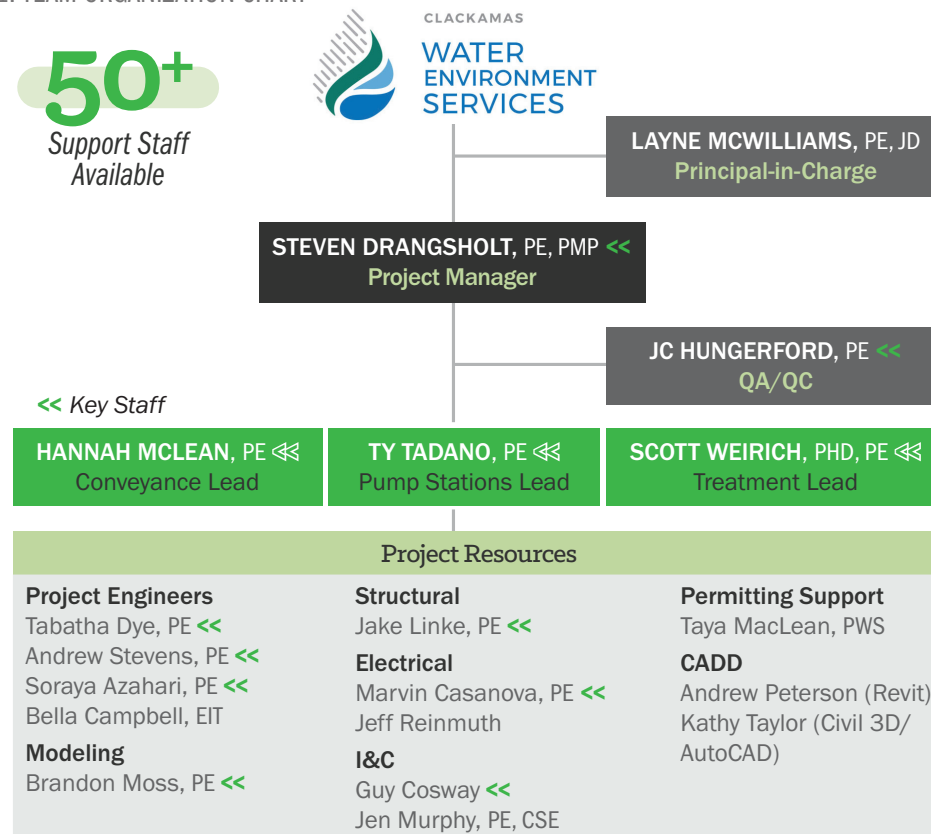
REFERENCE: Birol Shaha, 425.452.4477, bshaha@bellevuewa.gov

Prior to this project, Parametrix provided design engineering for a pump replacement project as a template for developing the scope to design pump replacements at seven pump stations. For this project, Parametrix provided predesign, final design, and CM for replacing discontinued Paco pumps at seven pump stations. This project included ventilation upgrades and safety-related improvements. The design identified bypass pumping strategies, permitting requirements, force main transient analysis, electrical and control upgrades, pump selections, equipment lists, and risk register for each of the stations.

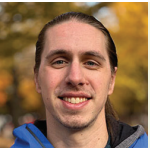
3. Project Team

Our multidisciplinary team was chosen for their expertise and advanced technical skills to support WES in implementing Wastewater Conveyance and Treatment Engineering. Roles and responsibilities are illustrated in **Exhibit 1**. We have outlined their qualifications that make these individuals the right fit. All of our key staff have the necessary availability. Resumes of our key staff are provided in the appendix. Our project manager, Steven Drangsholt, is an experienced leader in wastewater working throughout the northwest on treatment and collection system projects.

EXHIBIT 1: TEAM ORGANIZATION CHART



STAFF NAME/ROLE	QUALIFICATIONS	PROJECT EXPERIENCE
STEVEN DRANGSHOLT, PE, PMP  Project Manager 19 Years of Experience	▶ Is a project manager with experience in the water and wastewater field, including treatment plant projects ▶ Led multiple facility planning efforts which have included coordination with O&M staff and condition assessment of existing processes ▶ Has extensive experience with sewer cleaning, inspection, and rehabilitation planning and design	▶ Cedar Street Pump Station Improvements CWS ▶ Collection System Management Planning LOTT ▶ Pump Station and Force Main Capital Improvement Program SPU
JC HUNGERFORD, PE  QA/QC 18 Years of Experience	▶ Is well organized and focuses on staying ahead of the team by addressing issues and decisions, which allows the delivery team to efficiently complete their tasks without unnecessary rework ▶ Is responsible for the QA/QC on all deliverables and serves as the final approval, ensuring all QC processes have been followed in accordance with the documented QC Plan	▶ Water Resource Recovery Facility Plan City of Orting ▶ 2020-2023 On-Call Engineering SPU ▶ WWTP Improvements City of Montesano ▶ Wastewater Treatment Facility Improvements City of Forks
HANNAH MCLEAN, PE  Conveyance Lead 10 Years of Experience	▶ Is an experienced project manager with a background in collection systems for new and rehabilitated infrastructure ▶ Is experienced in master planning, condition assessments and rehabilitation, conveyance, and wastewater treatment ▶ Has technical expertise for small- and large-diameter pipeline condition assessments, pipeline rehabilitation design, and construction services	▶ Martin Way Pump Station Improvement Basis of Design LOTT ▶ General Sewer Master Plan City of Hillsboro ▶ Pipeline Rehabilitation Design and SDC LOTT
TY TADANO, PE  Pump Station Lead 24 Years of Experience	▶ Has performed condition assessments and/or design at over 100 pump stations sites ▶ Understands how to communicate and address pump station operator concerns ▶ Has designed multiple pump stations ranging from 60 gpm to 14 mgd, including a project awarded the CASA Award for excellence	▶ Engineering Design On-Call City of Shoreline ▶ Lift Station 3, 11, 12, 14 Improvements City of Shoreline ▶ PS Condition Assessment City of Bellevue
SCOTT WEIRICH, PHD, PE  Treatment Lead 20 Years of Experience	▶ Specializes in operational support, troubleshooting, and optimization of WWTPs ▶ Was previously an operator at the City of Everett WWTP ▶ Has worked with plant operators to support startup of nutrient removal upgrades, troubleshoot nitrification issues, and optimize anaerobic selector performance	▶ Black Butte Nitrification Troubleshooting Black Butte Ranch ▶ CBWTP Process Support City of Portland ▶ CBWTP CEPT Improvements for pH Compliance City of Portland ▶ Water Reclamation Facility City of Yelm
TABATHA DYE, PE  Project Engineer 14 Years of Experience	▶ Has prepared several types of water planning documents, including system analysis, emergency response plans, and comprehensive plans ▶ Has experience that includes water and sewer pipelines, pump stations, reservoirs, and other facilities	▶ On-Call Engineering Services City of Orting ▶ CRWWD General Sewer Plan CRWWD ▶ Horizon View 2 Reservoir & Pump Station Replacement City of Bellevue

STAFF NAME/ROLE		QUALIFICATIONS	PROJECT EXPERIENCE
	ANDREW STEVENS, PE Project Engineer 13 Years of Experience	▶ Has comprehensive expertise with sanitary sewer rehabilitation, force main replacement, and pump station evaluation and upgrades ▶ Has reviewed over 1 million LF of sanitary sewer, provided design for 500,000 LF of pipe and has managed 250,000 LF of rehab. design ▶ Has worked on projects from startup to closeout and understands the importance of engaging with clients early	▶ Lombard Pump Station Upgrade City of Portland ▶ PAPS City of Portland ▶ Glenwood Pump Station ARVs CRWWD ▶ 101st Avenue Pump Station Upgrade City of Portland
	SORAYA AZAHARI, PE Project Engineer 11 Years of Experience	▶ Brings experience in design and construction of water and wastewater facilities of all sizes ranging from under 100 gpm up to 800 mgd ▶ Has extensive on-site construction engineering experience and has worked closely with contractors and vendors, which allows her to provide design with constructability at the forefront	▶ CGWTP HW and WWIPS VFC Replacement City of Portland ▶ Shelton Water & Wastewater Treatment On-Call City of Shelton ▶ 101st Avenue Pump Station Upgrade City of Portland
	BRANDON MOSS, PE Modeling 8 Years of Experience	▶ Has versatile modeling capabilities to right-size efforts to project needs and schedules ▶ Has multidisciplinary experience with conveyance and facility modeling, planning, and design reduces need for large teams ▶ Has familiarity working with O&M staff helps understand, prioritize, and select preferred solutions	▶ Sunriver Wastewater Treatment Plan Upgrade Sunriver Environmental LLC ▶ Pump Station Improvement Program City of Portland ▶ UV Disinfection System Upgrades Construction Services LOTT
	JAKE LINKE, PE Structural 12 Years of Experience	▶ Is experienced providing inspection and condition assessment for wastewater and water facilities to verify structural integrity ▶ Designs structural components and provides seismic analysis for wastewater facilities ▶ Specializes in unique structural designs and assessments	▶ NE 13th Ave. Pump Station Discharge Lines Rehabilitation Urban Flood Safety & Water Quality District ▶ Digester Phase 2 Design LOTT ▶ Redondo Electrical & Odor Control Detailed Design Lakehaven Utility District
	MARVIN CASANOVA, PE Electrical 20 Years of Experience	▶ Has field experience implementing SCADA systems, PLCs, and process and analytical instrumentation, including experience implementing upgrades on PLCs, Wonderware and other SCADA systems, and systems using the MODBUS protocol ▶ Has electrical power and I&C design and construction experience for water and wastewater facilities	▶ CBWTP HW and WWIPS VFD Replacement City of Portland ▶ CBWTP Process Monitoring Improvements City of Portland ▶ WRF Upgrade (MBR and UV) Phase 2 City of Yelm
	GUY COSWAY I&C 42 Years of Experience	▶ Has 35 years of experience in programming and troubleshooting complex control systems ▶ Excels at outdated and obscure PLC and relay logic systems and finding value solutions	▶ Muckleshoot 2019 On-Call SCADA Support Muckleshoot Indian Tribe ▶ Operations Control System and Telemetry Upgrade and Support Spanaway Water Company

SPECIALIZED EQUIPMENT OR SOFTWARE

Parametrix leverages specialized equipment and software to address complex wastewater conveyance and treatment challenges, including those listed below.

SOFTWARE/EQUIPMENT	USE
Desktop/Software Design Tools	
AFT Fathom, Impulse, and Arrow	Incompressible fluid modeling for pumps and pipes; compressible fluid modeling for blowers and process air
FLOW-3D-HYDRO (CFD)	3D multi-fluid, multiphase CFD modeling for hydraulics and treatment process
Microsoft Excel	Custom VBA-coded spreadsheets for hydraulic design of pipes, channels, weirs, orifices, and inlets
GoldSim	Dynamic simulation software for hydraulics of pipes, pumps, valves, and channels that can include probabilistic and risk-based analysis
Ceasar II	Pipe stress analysis for pipe support design
Bentley FlowMaster	Hydraulic design of elements such as pipes, open channels, weirs, orifices, and inlets
Biowin	Biological, chemical, and physical treatment process modeling
MegaWATS/MegaVENT	Biological and chemical processes in sewer networks to predict sewer air quality for odor control measures and corrosion potential
InfoWorks ICM	Integrated wastewater collection system hydraulic modeling
ArcGIS Pro	Integration, analysis, and visualization of spatial data related to wastewater infrastructure, internal or public storyboards
BIM/Revit	3D modeling, visualization, and drawing development
Field Equipment Design Tools	
Leica BLK360 Imaging Laser Scanner	Precision imaging and 3D laser scanner to capture point clouds for facility BIM
Project Management Tools	
BST	Time tracking and invoicing
PowerBI dashboards	Workload tracking to keep staff on track
Microsoft Excel	Spreadsheet tools for tracking earned value to keep projects under budget
Microsoft Teams	File sharing with client
Bluebeam Revu	PDF with support for shared markup sessions

4. Project Approach

We will serve as an extension of your team to deliver timely, specialized projects that WES may not have existing resources to conduct. Each project assignment has different needs and goals, and each will require a slightly different approach to delivery, given the possible span of the projects, including conveyance, pump stations, and treatment elements.

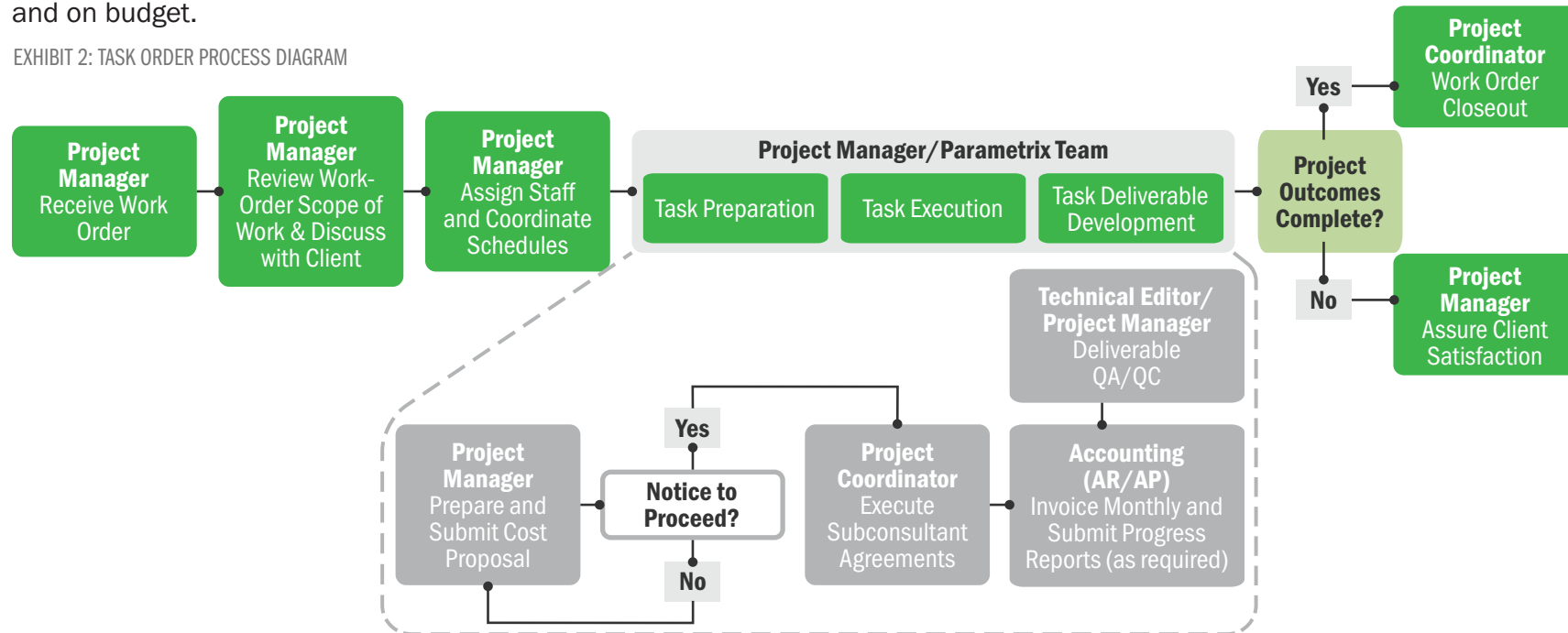
Delivery Approach Summary

For each task order, Steven will work closely with WES to establish the scope, budget, key milestones, and schedule. Steven, working with a discipline lead, will build a team that has the experience and availability to deliver the project. We will lead a project initiation meeting to introduce key team members and gather stakeholder input. After notice to proceed, our team will enter tasks, budgets, and schedule information into our BST Enterprise financial software, which has the capacity to provide forecasts and monitor earned value. Our system allocates resources and assigns them to your tasks so they are committed to delivering on schedule and on budget.

Along with our leads, Steven will focus on communicating to facilitate successful delivery. We will hold internal and collaborative project management meetings with WES staff throughout the tasks to discuss key decisions, schedule, budget, and risk. Our team will identify additional meetings and workshops to evaluate technical topics and review designs. WES will be fully informed throughout the process and provided with challenges and recommendations for your decision-making process. We will support WES with reports, design documents, and presentations that provide basis for project progress.

Exhibit 2 demonstrates our task order delivery process.

EXHIBIT 2: TASK ORDER PROCESS DIAGRAM



A Commitment to Communication

Our team is committed to proactive, efficient communication with WES so that we can work together to complete each and every project and deliverable under this on-call contract. Our primary point of contact is Steven, with principal-in-charge Layne McWilliams serving as the team's secondary contact. Steven is supported by task leads who have expertise in each type of project discipline. These leads are shown in **Exhibit 1, page 6**.

We understand that on-call contracts sometimes require long-term commitments or short-turnaround time frames, depending on the specific project. Our team can work with you in either scenario to complete quality work on time and within budget.

Project Understanding: The initial step in each task order is to work with WES to understand and define project goals so that we can successfully complete the task. Early collaboration is important to make sure the project needs are properly addressed and that the staffing provides the required expertise. Our team will lead an initiation workshop to document understanding, and key success factors and introduce team members.

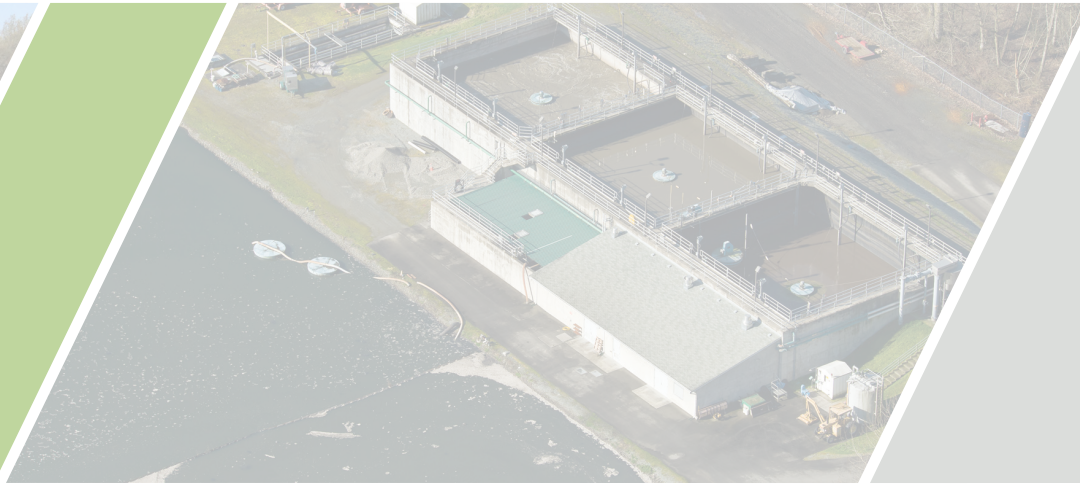
Scoping: Parametrix will meet with key staff to clarify the scope, refine approaches, recognize opportunities to share staff or equipment, and discuss schedule constraints. This collaboration results in development of a scope, budget, and schedule compatible with WES' scope, schedule, and budget expectations. We see scoping as a collaborative activity and use "live" files with WES access and track changes to facilitate timely responsiveness and attention to key details of the approach.

Kickoff Meetings: Our team will meet with WES at the start of the contract to define expectations. The focus will be on defining lines of communication; cost-saving opportunities; content of budgets, scopes, and reports; conflict-resolution procedures; and recognition of constraints. A key outcome of these meetings is an initial risk register and project success factors.

Budget Controls: Parametrix will perform task work per the agreed-upon scope and monitor project budgets and schedules. With strategic planning, weekly progress monitoring, and real-time tracking using our budgeting/timesheet software, we are able to communicate differences in baseline scope, schedule, or risks that could impact delivery.

Quality Program: QC and QA are two different actions, integrated into our standard practices. We know the difference. QC is exercised during the initial work. We have found that using BlueBeam and established processes are effective means for performing QC. We can also use traditional means (such as a review comment and resolution spreadsheet), depending on WES' preference. Review meetings with WES and project review staff keep the project moving, address concerns and questions, and track decisions during the design process. Senior engineers conduct integrated constructability reviews early to avoid costly rework or unsuitable construction risks. QC resolution is confirmed by an independent QA review to verify that comments and corrections have been addressed. Regardless of whether the deliverable is a planning study, a survey file, design documents, or a construction change order, our deliverables are checked for conformance with the project success factors and scope expectations.

APPENDIX A: Resumes



STEVEN DRANGSHOLT, PE, PMP



Benefit to WES

- Is an experienced project manager with experience in the wastewater field that includes collection system and treatment plant projects
- Led multiple facility planning efforts, which have included coordination with O&M staff and condition assessment of existing processes
- Has extensive experience with sewer cleaning, inspection and rehabilitation planning and design

Project Manager

YEARS OF EXPERIENCE: 19 ■ MS, CIVIL ENGINEERING, UNIVERSITY OF WASHINGTON ■ BS, CHEMICAL ENGINEERING, UNIVERSITY OF WASHINGTON ■ PROFESSIONAL ENGINEER, WA #48153 ■ PROJECT MANAGEMENT PROFESSIONAL #3238993

Steven is an experienced leader in wastewater, working throughout the northwest on treatment and collection system projects. His clients include the Clean Water Services, City of Boise, LOTT, City of Everett, City of Seattle, and King County. Steven has served as a project manager and project engineer on many wastewater planning projects throughout his career. His expertise includes program/project management, comprehensive wastewater planning, CSO mitigation, I/I reduction, asset management, and treatment and collection system planning and design. Steven also served as the Speaker of the House of Delegates for the Water Environment Federation from 2022–2023, leading taskforce and committees for the organization.

RELEVANT EXPERIENCE:

Cedar Street Pump Station Improvements | Forest Grove, OR

Clean Water Services

As project manager, Steven is leading the pump replacement, electrical upgrade, and site improvements for a 150 gpm, 5 HP pump station. The existing pump station is being upgraded from single-phase to three-phase power supply. This power upgrade results in the replacement of the existing Hydromatic submersible pumps to Flygt N-Impeller Concenter submersible pumps, along with the controls system and standby generator. While performing these upgrades, the team identified additional site improvements to support better maintenance of valves and piping by relocating this equipment above grade. The project will be completed in 11 months from notice to proceed through construction services.

Collection System Management Planning | Olympia, WA

LOTT Clean Water Alliance

As project manager, Steven led the team developing a condition assessment strategy for identifying collection system deficiencies for 18 miles of sewers and 300 manholes. This project included developing site-specific workplans for conducting conventional CCTV and panorama-type manhole

inspections, procuring qualified inspection vendors, and conducting a condition assessment. The outcome was to identify a long-term inspection, maintenance, repair, rehabilitation, and replacement program for these assets, allowing LOTT to establish a capital improvement program. Subsequent phases will include planning and inspection of force main assets.

Pump Station and Force Main Capital Improvement Program | Seattle, WA

Seattle Public Utilities

Working as the program manager with SPU employees, Steven led the pump station and force main capital improvement program that included capital projects associated with improvements and rehabilitation of SPU's 68 wastewater pump stations. The program had an annual budget of \$3M and contained more than a dozen projects. Management required balancing operation and maintenance costs with capital improvements to maximize benefits. Steven's programmatic responsibilities included leading multidisciplinary project teams, managing the program budget, updating stakeholders on the monthly status, and preparing the annual business case.

SORAYA AZAHARI, PE



Benefit to WES

- ▶ Has extensive on-site construction engineering experience and has worked closely with contractors and vendors, which allows her to provide design with constructability at the forefront
- ▶ Provides tailored solutions based on client operations and needs
- ▶ Is knowledgeable with current and emerging treatment technologies to find a right-sized solution for the client

Project Engineer

YEARS OF EXPERIENCE: 11 ■ MS, CHEMICAL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF PUTRA MALAYSIA ■ BS, ENVIRONMENTAL ENGINEERING, UNIVERSITY OF DELAWARE ■ PROFESSIONAL ENGINEER - CIVIL, OR #101398PE

Soraya has experience in detailed design and construction of water and wastewater treatment facilities, including pump stations, headworks facilities, water tank design, coordination of site utilities, I&C, process mechanical and civil design, and gravity and pressure mains. She has experience in delivering projects through conventional DBB and alternative delivery methods. She has been an integral design member in programs with construction costs of up to \$450M for treatment plants with capacities up to 800 mgd. Working with multidisciplinary teams, she brings cohesive experience with full understanding of the entire system encompassing both the linear and vertical infrastructure required to provide reliable service.

RELEVANT EXPERIENCE:

Lombard Pump Station Upgrade | Portland, OR

City of Portland

Improvements included the rehabilitation of a 30-inch force main spanning 4,800 LF through slip lining with an 18-inch HDPE pipe, pump replacements, pig launching station, and flow meter vault. During design, Soraya served as project engineer and currently serves as process mechanical engineer during the construction phase, coordinating closely with the owner and contractor.

Price Agreement for Pump Station Improvement (PAPSI) | Portland, OR

City of Portland

Soraya served as lead process mechanical engineer for two pump station upgrades—101st Avenue Pump Station and Elk Rock Pump Station. Improvements included new pump selections and valve vault arrangements, wet well geometry changes, HVAC incorporation, generator and electrical upgrades, odor control system, and updates to pump station discharge alignments. Both projects began with an alternatives analysis and incorporated client input to design a pump station that meets the owner's intent for operation and reliability.

Foothills Utilities Section 14 WWTP Improve. | Yuma, AZ

NW Natural Water

Soraya is the design manager/lead process mechanical engineer for upgrades at the 1 mgd WWTP. The project started as an alternatives analysis but expanded to full replacement design of new rotary drum screens and sludge screw presses. The upgrades include a sludge holding tank, valve vault, blower, replacement of polymer injection system, new electrical room, membrane maintenance tank, and odor control system. She worked with the owner and CMAR, and was involved with permitting.

Back River WWTP Headworks Improvements | Baltimore, MD

City of Baltimore

Soraya was a project engineer for this \$430M upgrade, comprised of advanced site work for force main reroutes, construction of a new coarse screen facility, influent pumping station, fine screen facility, grit facility, blower building, equalization storage tanks, chemical feed facility, odor control facility, and multiple site utility reroutes. She reviewed submittals, RFIs, and change orders, working closely with the contractor and on-site operations staff.

MARVIN CASANOVA, PE



Benefit to WES

- Has experience implementing SCADA systems, PLCs, and process and analytical instrumentation, including implementing upgrades on PLCs, Wonderware (AVEVA) and other SCADA systems, and systems using the MODBUS protocol
- Has electrical power and I&C design and construction experience for water and/or wastewater facilities

Electrical

YEARS OF EXPERIENCE: 20 ■ BS, ELECTRICAL ENGINEERING, UNIVERSITY OF ALASKA FAIRBANKS ■
PROFESSIONAL ENGINEER, OR #96368PE, WA #48989, ID #P-19792

Marvin has electrical power and I&C experience for water and wastewater utilities and large WWTPs. His experience includes troubleshooting control logic, PLCs, DCSs, and safety instrumented systems. Prior to Parametrix, his I&C design and on-site work included oil, gas, mining, and power plant facilities where impacts to system safety are paramount and the cost of failure can be significant in terms of loss of life, monetary impacts, or damage to the environment. Most recently, he has worked with various municipalities and tribes, gaining experience with large WWTP systems. Marvin has worked closely with engineers, operators, technicians, and electricians on various instrumentation and electrical projects for industrial facilities.

RELEVANT EXPERIENCE:

Cowlitz MBR Water Reclamation Plant Upgrade Design | Ridgefield, WA

Cowlitz Tribal Gaming Authority

Marvin is the engineer-of-record for the design of Ilani's WRP upgrade to increase the plant's capacity through the installation of MBR trains and associated equipment. The design took into consideration challenges related to constructability and equipment lead times, which Marvin was able to successfully navigate through with his design team over the course of the project.

CBWTP Process Monitoring Improvements | Portland, OR

City of Portland

Marvin is the engineer of record for a project at the CBWTP to improve process monitoring at the plant by upgrading and relocating existing process equipment such as TSS analyzers and gas flow meters at the plant's wet weather clarifier and digester facilities.

CBWTP HW & WWIPS VFD Replacement | Portland, OR

City of Portland

Marvin is the engineer of record for a project at the CBWTP that involved the replacement of VFDs

for 250 HP and 450 HP pumps at the plant's headworks facility. The existing drives, estimated to be over 20 years old, involved complex circuitry atypical of pump VFDs. Through productive collaboration with the City, critical design elements were successfully preserved and added to the replacement VFDs' design.

WRF Upgrade (MBR and UV) Phase 2 | Yelm, WA

City of Yelm

Marvin is the engineer of record for the control system upgrade design at the City's WRF facility, which involved the conversion of the facility from an SBR to an MBR process. The design involved a new headworks, UV, solids, and septage receiving facility.

Lake Oswego McVey Pump Station | Lake Oswego, OR

City of Lake Oswego

Marvin is the engineer of record for the design of controls at the refurbishment of McVey Pump Station. The new pump station building will house a PLC control panel that will align with the City's control panel design standards. Flow meters, chemical injection equipment, VFDs, and HVAC are examples of equipment that required controls design incorporation for this project.

GUY COSWAY



Benefit to WES

- ▶ Has 35 years of experience in programming and troubleshooting complex control systems
- ▶ Has vast knowledge of process in water and waste water systems
- ▶ Excels at outdated and obscure PLC and relay logic systems and finding value solutions

I&C

YEARS OF EXPERIENCE: 42 ■ COLLEGE COURSEWORK, ELECTRICAL ENGINEERING, KENNEDY WESTERN UNIVERSITY ■
WONDERWARE ACHESTRA CERTIFIED ■ APPLICATION DEVELOPER IN SYSTEM PLATFORM 3.0

Guy is an electrical instrumentation and controls designer with experience in the design and programming of wastewater pump station electrical control systems. Guy's experience includes power distribution, VFD, pump control, standby generators, ultrasonic level sensors, magnetic flow meters, PLCs, HMI displays, radio and network telemetry, Motorola MOSCAD, and SCADA. He is a licensed system integrator for Wonderware software, as well as for Automation Direct hardware for industrial facilities.

RELEVANT EXPERIENCE:

Muckleshoot 2019 On-Call SCADA Support | Auburn, WA

Muckleshoot Indian Tribe

Guy has provided on-call SCADA support and programming services to the Tribe for several years. Guy designed and implemented radio telemetry for the lift stations and implemented the SCADA system. Guy's past programming services have included installation support for new RTUs, SCADA system modifications to upgrade existing RTUs, and enhancements to the alarm and process graphics screens. In addition to programming, Guy also provides on-call site electrical and control system troubleshooting and training.

Operations Control System and Telemetry Upgrade and Support | Spanaway, WA

Spanaway Water Company (SWC)

Guy has been working with the SWC for the past 6 years providing support for the existing system. Guy has been involved in a multiyear total SCADA system upgrade. The existing control system(s) were obsolete, unreliable, and unsupported by the original vendor. Parametrix was called in to help with a serious operational problem and was the only solution in the greater Seattle area. Guy and the Parametrix team designed a new, more supportable control system for SWC and was able to implement the upgrade without interruption to SWC operations.

This was accomplished by converting one site at a time until the old system was removed. Guy has also been supporting the client when issues arise.

On-Call SCADA Support | Auburn, WA

City of Auburn

Guy has been involved in the support of the existing SCADA system and also the radio telemetry system(s) in Auburn. Guy has also been involved in supporting the Water and Waste Water crews in troubleshooting control issues at various locations. Guy is instrumental in commissioning new installations and upgrades to existing control and SCADA equipment at the City of Auburn

On-Call SCADA Support | Centralia, WA

City of Centralia

Guy coordinated the radio survey and configured the radio telemetry backbone for the telemetry network. He systematically (station by station) transferred the old telemetry radio systems to the new as the hardware installation of each station completed. Guy also updated the SCADA system to Wonderware and TopView alarming system. Guy also did the latest upgrade to the SCADA system when the City decided to replace the SCADA servers.

TABATHA DYE, PE



Benefit to WES

- ▶ Has experience with wastewater system planning; data collection and SSI updates; hydraulic modeling; demand forecasting; capacity and condition assessments; O&M; CIPs; and agreements, policy, and standards
- ▶ Has experience working with municipalities, including on-call services

Project Engineer

YEARS OF EXPERIENCE: 14 ■ MS AND BS, CIVIL ENGINEERING, UNIVERSITY OF ALABAMA ■
PROFESSIONAL ENGINEER - CIVIL, WA #21036401

Tabatha has experience in design and planning for both public and private utility systems as a civil engineer. She has prepared several types of water and sewer planning documents, including system analysis, emergency response plans, and comprehensive plans. She brings her project design experience, including water and sewer pipelines, pump stations, reservoirs, and other facilities, to each of her planning projects. This combination of planning and design work provides her with a more holistic view of how to improve the entire system.

RELEVANT EXPERIENCE:

On-Call Engineering Services | Orting, WA

City of Orting

As a task order under this on-call contract, Tabatha is working on an update to the City's water system plan. The water system plan is part of the City's regularly scheduled plan updates. Tabatha has interviewed the City's O&M staff to update their asset management and capital improvement projects.

2023 Wastewater Comprehensive Plan Update | Federal Way, WA

Lakehaven Utility District

This project is part of the District's regularly scheduled plan updates. Tabatha is the project manager and led the system analysis. Tabatha's work is helping to right-size the District's capital project list while accommodating rapid growth.

CRWWD General Sewer Plan | Vancouver, WA

Clark Regional Wastewater District

The 2026 general sewer plan is part of the District's regularly scheduled planning cycle. Tabatha is a project engineer leading the planning work, such as basis of design, policy, and capital improvements. Tabatha's work is helping the District prepare for the rapid growth within Clark County.

Horizon View 2 Reservoir & Pump Station Replacement | Bellevue, WA

City of Bellevue

This project involved the replacement of the client's existing, aging reservoir and pump station. The reservoir was replaced with a 0.4-mg tank, and the pump station was replaced with a larger pump station, including a standby generator room, office, and bathroom space. Tabatha provided site layout, road layout, reservoir sizing, internal reservoir plumbing, reservoir drain design, internal pump station layout, pump selection, generator room layout, HVAC design, and associated specifications.

Pump Station 14 Relocation | Bremerton, WA

City of Bremerton

This project involved replacing and relocating this pump station in a new location, which included new pumps, a standby generator room, provisions for additional chlorination, and an ADA-accessible bathroom for the nearby park. Tabatha provided the site layout, building layout, pump selection, HVAC, sizing for standby generator, watermain alignment, sanitary sewer alignment, storm alignment, and internal utilities.



Benefit to WES

- Is well organized and focuses on staying ahead of the project team by addressing issues and decisions with the owner, which allows the delivery team to efficiently complete their tasks without unnecessary rework
- Is responsible for the QA/QC on all deliverables and serves as the final approval, ensuring all QC processes have been followed in accordance with the documented QC plan

QA/QC

YEARS OF EXPERIENCE: 18 ■ BA, CIVIL ENGINEERING, CARROLL COLLEGE ■ PROFESSIONAL ENGINEER – CIVIL, WA #48174

In his role as QA/QC, JC's focus is on quality deliverables and making sure Steven has the resources he needs to successfully complete any of the projects for WES through this on-call. He has extensive experience in utility planning, rate analysis, facility planning/design, and construction and project management. As the Water Division manager at Parametrix, JC provides project oversight and QA/QC to a variety of projects.

RELEVANT EXPERIENCE:

Water Resources Recover Facility Plan | Orting, WA

City of Orting

JC led the facility plan update for the City of Orting's WRRF as the Parametrix project manager. Parametrix provided an engineering report and predesign for biosolids treatment upgrades, process improvements, and general plant improvements. This plan was completed in accordance with WAC 173-240 and approved by Ecology. Plan elements included financial analysis, population analysis, and flows and loads projections.

2020-2023 On-Call Engineering Services | Seattle, WA

Seattle Public Utilities

JC serves as the contract manager and QC lead for this engineering on-call services agreement with Seattle Public Utilities. Task orders have included a culvert emergency repair design; multiple sanitary sewer lining design contracts, which included constructability and permitting support; and a compactor replacement for a solid waste transfer station.

WWTP Improvements | Montesano, WA

City of Montesano

JC was the project manager for designing plant upgrades, which included analyzing solids-handling upgrade options to eliminate a portion of the on-site lagoons, ultraviolet disinfection upgrades, outfall pump replacements, and various electrical

upgrades. This included management of the design team, subconsultants, and permitting.

Wastewater Treatment Facility Improvements | Forks, WA

City of Forks

JC managed the design of Clarifier 2 and ancillary equipment; return activated sludge and waste activated sludge pump stations with control panels, valve and flow meter vaults, piping, and ancillary equipment; electrical, instrumentation, PLC system, and associated improvements. His team also coordinated with Ecology throughout the project and is currently providing construction management services.

Orting On-Call Services | Orting, WA

City of Orting

JC performs civil plan reviews for civil, water, sewer, and stormwater; assisted with the selection of the iron and manganese filter for Well No. 4; assisted with the mapping of all utilities; manages annual utility rate analysis and establishment; and manages various on-call tasks. Additional projects include a water system plan, setback levee, lift station and force main replacement, booster station, waterline replacement, and more.

JAKE LINKE, PE



Benefit to WES

- ▶ Has experience with providing inspection and condition assessment for wastewater and water facilities to verify structural integrity
- ▶ Designs structural components and provide seismic analysis for wastewater facilities

Structural

YEARS OF EXPERIENCE: 12 ■ MS, STRUCTURAL ENGINEERING, UNIVERSITY OF WASHINGTON ■ BS, CIVIL ENGINEERING, UNIVERSITY OF WASHINGTON ■ PROFESSIONAL ENGINEER – CIVIL, OR #101627PE, WA #56738, ID #21624

Jake is a civil engineer with a focus on structural design. He has experience designing and analyzing building facilities, pump stations, wastewater and water treatment facilities, industrial facilities, waterfront structures, earth retaining structures, and buried structures. Jake has experience providing condition assessments of existing infrastructure, including wastewater and water treatment facilities, piers and wharves, bridges, and retaining walls.

RELEVANT EXPERIENCE:

NE 13th Avenue Pump Station Discharge Lines Rehabilitation | Portland, OR

Urban Flood Safety & Water Quality District
Jake designed and provided construction support for new supports for the replacement pipe that discharges into the Columbia Slough. The supports required driving piles into the water to support the new piping system. The project required coordination and permitting with BDS, DEQ, DSL, USACE, NMFS, and ODFW.

Sierra Treatment System Replacement | Puyallup, WA

Valley Water District
Jake designed a concrete pad for new tanks as well as made modifications to the existing timber enclosure as part of a series of improvements to the District's system.

Redondo Electrical & Odor Control Detailed Design | Federal Way, WA

Lakehaven Utility District
As the structural engineering lead, Jake provided designs for foundations of piles for large pieces of equipment. He also analyzed existing structures to verify the potential for adding new equipment penetrations in the buildings. Jake analyzed an unused digester to be repurposed by adding intermediate floors to support new structures.

Digester Phase 2 Design | Olympia, WA

LOTT Clean Water Alliance

Jake provided seismic analysis on modifications performed to existing digesters at the LOTT WWTP. Jake used SAP2000 to model adding an additional concrete ring beam around the inside of the prestressed concrete digester to incorporate a fixed cover, which replaced an existing floating cover. The digester was analyzed to verify that the concrete was not overstressed due to the changes occurring to the existing structure.

CWA 2022 On-Call Engineering Services | Bellevue, WA

Cascade Water Alliance

Under this on-call engineering contract, Jake performed an inspection walking a couple miles inside a 10-foot-diameter pipeline to verify its structural integrity. Jake also designed a new concrete retaining wall to replace an existing wall that failed and designed a containment wall to minimize water from escaping a plunge pool.

HANNAH MCLEAN, PE



Benefit to WES

- Is an experienced project manager with a focused background in collection systems from asset management to design/construction activities for new and rehabilitated infrastructure
- Has field experience leading services during construction including contractor oversight, QC and construction meetings

Conveyance Lead

YEARS OF EXPERIENCE: 10 ■ MS, ENVIRONMENTAL ENGINEERING, UNIVERSITY OF CENTRAL FLORIDA ■
PROFESSIONAL ENGINEER, WA #57089 ■ NASSCO PACP/MACP/LACP, NO. U-0417-07007887

Hannah is a senior engineer with experience in master planning, condition assessments and rehabilitation, conveyance, and wastewater treatment. Her technical expertise includes small and large diameter pipeline condition assessment, pipeline rehabilitation design, and services during construction. She has supported several Master Planning efforts in water distribution, wastewater treatment, and wastewater conveyance systems in the Northwest. She is passionate about the wastewater industry and understands the unique goals, challenges, and stakeholders each client has. Hannah strives to learn each utility's unique drivers and will work to deliver projects that exceed client expectations and improve the local environment.

RELEVANT EXPERIENCE:

LOTT Martin Way Pump Station Improvement Basis of Design | Olympia, WA

LOTT Clean Water Alliance

The most recent flow projections suggest this pump station is already operating above 90% capacity. Outside of the capacity issues, most of the major equipment within the pump station is approaching its intended service life. This project includes an alternatives analysis and conceptual design of improvements. The conceptual design will take the recommended alternative for the pump station to a 10% design. As project lead, Hannah managed the design team and design of the collection system rehabilitation elements of the project scope.

Manhole Rehabilitation Design and Services During Construction | Olympia, WA

LOTT Clean Water Alliance

Hannah led the alternatives analysis phase to determine appropriate rehabilitation methods. She provided QC for the 30%, 90%, and final contract documents for rehabilitation of 35 manholes. Work included responding to submittals and RFIs. Services during construction included taking photos, facilitating answers to contractor, and oversight of contractor's adherence to contract documents.

General Sanitary Sewer Master Plan | Hillsboro, OR

City of Hillsboro

Hannah was the design lead on the development of the City's 10-year CIP program for pipeline rehabilitation and replacement projects. Hannah performed a statistical review of the City's PACP inspection data to identify qualifying rehab projects. Working with the City, she performed a risk assessment to prioritize projects. Hannah led the content development for the plan.

Pipeline Rehabilitation Design and Services During Construction | Olympia, WA

LOTT Clean Water Alliance

Phase 1 included UV-cured CIPP lining, sliplining, and manhole rehabilitation at several sites. Phase 2 included UV-cured CIPP lining and manhole rehabilitation at five separate locations in Olympia. Both phases included rehabilitation of 18-inch-diameter through 42-inch-diameter pipeline which necessitated large bypass configurations. Hannah managed the projects and provided detailed design review of project plans and specifications. She also managed the services during construction phase and assisted with submittal review, RFI compilation, field observation, and lead weekly construction meetings.

BRANDON MOSS, PE



Benefit to WES

- ▶ Has versatile modeling capabilities to right-size efforts to project needs and schedules
- ▶ Has multidisciplinary experience with conveyance and facility modeling, planning, and design reduces need for large teams
- ▶ Has familiarity working with O&M staff helps understand, prioritize, and select preferred solutions

Modeling

YEARS OF EXPERIENCE: 8 ■ MS, CIVIL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF WISCONSIN-MADISON ■ BS, CIVIL ENGINEERING, SEATTLE UNIVERSITY ■ PROFESSIONAL ENGINEER – CIVIL, WA #20123360, OR #100218PE

Brandon specializes in integrated simulation, planning, and design for wastewater, water, and stormwater infrastructure. He is experienced in modeling sewer and water networks and facilities, including closed-pipe and open-channel hydraulic systems in both steady and unsteady flow conditions for compressible and incompressible fluids. Simulation software experience includes Autodesk InfoSWMM and InfoWater, Bentley WaterCAD, AFT Fathom, Impulse, and Arrow. Brandon's 3D modeling experience includes CFD capabilities with Flow Science FLOW-3D HYDRO. He is also experienced in system monitoring and testing to provide calibration and validation of model results as well as for assessing equipment performance and condition.

RELEVANT EXPERIENCE:

Sunriver Wastewater Treatment Plant Upgrade | Sunriver, OR

Sunriver Environmental, LLC

Brandon prepared a pre-design report for the DEQ, which detailed proposed upgrades. He also provided hydraulic analysis, which included a new headworks facility, MBR retrofit, and solids handling upgrades. Also, CFD analysis was performed to locate mixers to optimize mixing within treatment basins.

Pump Station Improvement Program | Portland, OR

City of Portland

Brandon has had several roles for projects and on-call task orders. This includes project management of multidisciplinary teams, hydraulic modeling of pumps and force mains, and design of mechanical systems (pipes, pumps, valves). He has led workshops with engineering and O&M stakeholders to identify preferences and make design decisions.

Water System and Wastewater Master Plan | Pacific City, OR

Pacific City JWSA

Brandon supported the wastewater collection system hydraulic model in InfoSWMM. The model was used to update the CIP and support WWTP facility operations and planning. Brandon also supported the

development of the water system hydraulic model in InfoWater. The model was used to determine current system capacity, time to reach build-out capacity, and necessary system upgrades for future water demand for the CIP.

UV Disinfection System Upgrades Construction Services | Olympia, WA

LOTT Clean Water Alliance

Brandon provided hydraulic analysis and design for upgrades at the LOTT Budd Inlet Treatment Plant. His work ensured that construction sequencing allowed a flow of 55 mgd to bypass through two of seven available UV disinfection channels, while the five other channels were outfitted with upgrades.

PEN1 Drainage & Water Quality Planning Services | Portland, OR

Urban Flood Safety & Water Quality District

Brandon assessed conditions of the PIR Pump Station pumps, discharge pipes, and associated outfall components. He evaluated pumping capacities, including pump performance data collection and processing and curve development. Brandon supported the compilation of condition assessment and performance data into the master plan detailing existing conditions.

ANDREW STEVENS, PE



Benefit to WES

- ▶ Has reviewed over 1 million LF of sanitary sewer, has provided design for 500,000 LF of pipe, and has managed 250,000 LF of rehabilitation design work
- ▶ Has experience in multiple roles in pump station design and rehabilitation
- ▶ Has worked on many projects from startup to closeout and understands the importance of engaging with clients early to gather input and communicating effectively with the client and contractor

Project Engineer

YEARS OF EXPERIENCE: 13 ■ BS, CIVIL ENGINEERING - MINOR IN ENVIRONMENTAL ENGINEERING, UNIVERSITY OF DELAWARE ■ PROFESSIONAL ENGINEER, WA #21021925

Andrew has comprehensive technical expertise in the water and wastewater industry, including sanitary sewer rehabilitation, force main replacement, and pump station evaluation and upgrades. He has been certified for the condition review and assessment for gravity pipelines and the inspection of cured-in-place pipe through the National Association of Sewer Service Companies pipeline, lateral, and manhole assessment programs. Andrew has managed the coordination of field crews for sewer and manhole investigations for use in predesign and alternative analysis studies as well as created final design documents using AutoCAD Civil 2D and 3D, GIS, and Applied Flow Technology Fathom and Impulse Software.

RELEVANT EXPERIENCE:

Lombard Pump Station Upgrade | Portland, OR

City of Portland

Andrew is the civil lead for the rehabilitation of the 4,800 LF of 30-inch force main that will be sliplined with an 18-inch HDPE pipe. The design included bypassing the force main, location of insertion pits, and rehabilitation and design of new discharge and bypass structures. Andrew has facilitated pump station improvements that include replacing existing pumps with two 2,640 gpm dry pit immersible constant speed pumps, ancillary mechanical system upgrades, a pig launching station, and a flow meter vault. Andrew has also provided senior review for submittals and RFIs, coordinated with City staff, worked closely with BES stakeholders, and engaged with external stakeholders.

Price Agreement for Pump Station Improvement (PAPSI) | Portland, OR

City of Portland

Andrew is the project manager for the 101st Avenue Pump Station Upgrade, which includes replacing the existing retaining wall, replacing above-grade for submersible pumps, a new meter vault and bypass connections, a new generator, electrical upgrades, and updates to the existing odor control system. Additionally, Andrew was design manager

for the improvements at the Elk Rock Pump Station, which included combining the wet and dry wells into a single structure; submersible pump sizing and selection; building upgrades; heating, ventilation, and HVAC improvements; a new meter vault; electrical upgrades; and installation of a new generator enclosure. Both projects included an alternatives analysis phase and client workshops. Andrew has managed multidisciplinary teams for both projects.

Central Bremerton Force Main | Bremerton, WA

City of Bremerton

Andrew is the project manager for replacing an approximately 3,100-LF section of the force main that has been heavily corroded and experienced multiple failures. The section will be increased from 14 to 18 inches in diameter to accommodate future flows from local Naval Base. Andrew prepared both an alternatives report, considering various construction methods with cost estimates for the City's decision on construction method and an engineering report for the City's submission for federal funding of the project. Andrew has led the multidisciplinary team in the design of the force main alignment, replacement of the existing surge chamber, site restoration, traffic control details, design of a new bypass connection, preparation of specifications, and cost estimates.



Benefit to WES

- Has performed condition assessments and/or design at over 100 pump stations sites
- Understands how to communicate and address pump station operator concerns
- Has designed multiple pump stations ranging from 60 gpm to 14 mgd, including a project awarded the CASA Award for excellence

Pump Stations

YEARS OF EXPERIENCE: 24 ■ BS, CIVIL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF CALIFORNIA ■
PROFESSIONAL ENGINEER - CIVIL, WA #56666, OR #91822

Ty brings extensive experience with pump stations, having served as a project engineer or project manager for nearly 40 pump station projects. Specifically relevant to WES, he has recent experience with on-call assignments, currently serves as the project manager for a City of Shoreline on-call, and is managing pump station work for our on-call with City of Bellevue. Ty has designed new or rehabilitated wastewater pump stations from 60 gpm to 14 mgd in configurations, such as submersible, dry pit, and suction lift. Previously, Ty worked as a laborer and equipment operator on various dam and levee projects. His experience working in the field and 24 years as a designer has given him valuable insight into how to design constructable and operator-friendly projects.

RELEVANT EXPERIENCE:

Engineering and Design On-Call | Shoreline, WA

City of Shoreline

Ty is managing this contract and a task order that is supporting a gravity sewer project with supplemental geotechnical services to evaluate soft soils and provide foundation recommendations.

Lift Station 3, 11, 12, 14 Improvements | Shoreline, WA

City of Shoreline

Ty is the project manager to upgrade LS 12 with new 400 gpm dry pit pumps, piping, VFDs, HVAC, hoist, and lighting. On the outside of the lift station, the improvements include a new flowmeter vault, new stormwater diversion structure, and manhole rehabilitation. LS 3 will be improved with a new battery backup system, and LS 11 and 14 will be improved with new generators and flowmeter vaults.

Bellevue PS Condition Assessment | Bellevue, WA

City of Bellevue

Ty is the technical lead for assessment of 10 wastewater pump stations under an on-call contract. Parametrix is providing flow, pressure, and vibration testing of pumps; flow testing of ventilation equipment; wall thickness testing of steel drywells; and thermal imaging of electrical equipment.

Bellevue Lake Hills PS12 and FM Alternatives Analysis | Bellevue, WA

City of Bellevue

As part of an on-call contract, Ty was the technical lead for performing a business case analysis for three alternative pump station options and four alternative force main options. He coordinated with geotechnical, trenchless, public outreach, and GIS subconsultants. Ty coordinated with permitting staff to develop a matrix of anticipated permits. He also assisted with four workshops with the City that culminated in the selection of a new high head two-stage pump station designed for 900 gpm at 310 feet, on a new site, with a new 2,800-foot-long 10-inch HDPE force main.

Somerset 2 Pump Station Rehabilitation | Bellevue, WA

City of Bellevue

Parametrix provided technical assistance for the evaluation of alternatives for moving the pump station to a new site or rehabilitating the existing pump station. Ty assisted in finalizing the technical memorandum deliverable, incorporating City comments and preparing life cycle costs.

SCOTT WEIRICH, PHD, PE



Benefit to WES

- ▶ Has experience interfacing with operations staff and getting input/feedback on alternatives
- ▶ Has expertise with advanced wastewater secondary treatment processes
- ▶ Has experience evaluating energy-saving projects and new technologies
- ▶ Is published in Water Environmental Federation on the use of peracetic acid and testing procedures for wastewater disinfection

Secondary Treatment

YEARS OF EXPERIENCE: 20 ■ PHD, MS, ENVIRONMENTAL ENGINEERING, UNIVERSITY OF COLORADO ■ BS, CIVIL ENGINEERING, UNIVERSITY OF COLORADO ■ PROFESSIONAL ENGINEER - CIVIL, WA #20122702 ■ GROUP IV WASTEWATER OPERATOR CERTIFICATION, #8689

Scott has been involved as an engineer specializing in the design, operational support, troubleshooting, and optimization of WWTPs, including construction support during upgrades, startup, and commissioning. He has worked to ensure adequate disinfection through several plant upgrades involving UV disinfection and chemical disinfection. Scott has worked with plant operators to support startup of nutrient removal upgrades and UV disinfection at LOTT Clean Water Alliance, troubleshoot nitrification issues at Black Butte Ranch, and optimize anaerobic selector performance for the City of Portland. He is passionate about giving operators the tools they need for their facilities to succeed.

RELEVANT EXPERIENCE:

WRF Upgrade | Yelm, WA

City of Yelm

Scott established the secondary treatment basis of design for upgrades to the biological nutrient removal plant. He was the lead design engineer for the chemical feed and odor control systems for the \$20M upgrade. This project included converting the existing SBR process to an MBR process with minimal additional tankage. Key aspects included nitrogen removal in difficult conditions due to the septic tank effluent pumping sewer system having high ammonia and low biochemical oxygen demand in the influent as well as high levels of hydrogen sulfide. Scott designed an influent chlorine additional system to remove hydrogen sulfide and a carbon supplement system to aid in denitrification.

Carnation Treatment Plant UV Disinfection System | Seattle, WA

King County

Scott provided mechanical design for the UV system upgrade, including coordinating the connection to the membrane system, overpressure protection, and instrumentation design.

He also worked with the operators and process staff to develop the operational narrative for the UV system and cooling water recirculation system.

UV Disinfection System Upgrades Construction Services | Olympia, WA

LOTT Clean Water Alliance

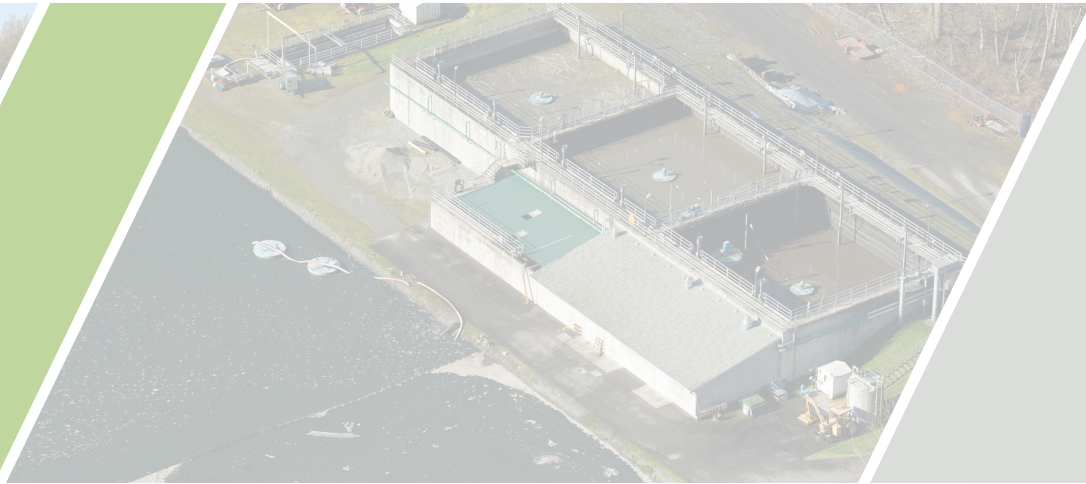
Scott served as the primary designer of the temporary disinfection system using peracetic acid. He analyzed operating data, determined the basis of design, created specifications, and advised in interactions with vendors for a disinfection system using peracetic acid to treat up to 55 mgd.

CBWTP Process Support | Portland, OR

City of Portland

Scott served as task order manager, providing on-site sampling, water quality analysis, process upsets troubleshooting, and recommending operational changes to improve treatment resilience.

APPENDIX B: **Proposal Certification**



PROPOSAL CERTIFICATION
RFP #2025-01

Submitted by: Parametrix, Inc. | Washington
(Must be entity's full legal name, and State of Formation)

Each Proposer must read, complete and submit a copy of this Proposal Certification with their Proposal. Failure to do so may result in rejection of the Proposal. By signature on this Proposal Certification, the undersigned certifies that they are authorized to act on behalf of the Proposer and that under penalty of perjury, the undersigned will comply with the following:

SECTION I. OREGON TAX LAWS: As required in ORS 279B.110(2)(e), the undersigned hereby certifies that, to the best of the undersigned's knowledge, the Proposer is not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means the tax laws of the state or a political subdivision of the state, including ORS 305.620 and ORS chapters 316, 317 and 318. If a contract is executed, this information will be reported to the Internal Revenue Service. Information not matching IRS records could subject Proposer to 24% backup withholding.

SECTION II. NON-DISCRIMINATION: That the Proposer has not and will not discriminate in its employment practices with regard to race, creed, age, religious affiliation, sex, disability, sexual orientation, gender identity, national origin, or any other protected class. Nor has Proposer or will Proposer discriminate against a subcontractor in the awarding of a subcontract because the subcontractor is a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns or an emerging small business that is certified under ORS 200.055.

SECTION III. CONFLICT OF INTEREST: The undersigned hereby certifies that no elected official, officer, agent or employee of Clackamas County is personally interested, directly or indirectly, in any resulting contract from this RFP, or the compensation to be paid under such contract, and that no representation, statements (oral or in writing), of the County, its elected officials, officers, agents, or employees had induced Proposer to submit this Proposal. In addition, the undersigned hereby certifies that this proposal is made without connection with any person, firm, or corporation submitting a proposal for the same material, and is in all respects fair and without collusion or fraud.

SECTION IV. COMPLIANCE WITH SOLICITATION: The undersigned further agrees and certifies that they:

1. Have read, understand and agree to be bound by and comply with all requirements, instructions, specifications, terms and conditions of the RFP (including any attachments); and
2. Are an authorized representative of the Proposer, that the information provided is true and accurate, and that providing incorrect or incomplete information may be cause for rejection of the Proposal or contract termination; and
3. Will furnish the designated item(s) and/or service(s) in accordance with the RFP and Proposal; and
4. Will use recyclable products to the maximum extend economically feasible in the performance of the contract work set forth in this RFP.

Name: <u>Roger Flint</u>	Date: <u>February 20, 2025</u>
Signature: 	Title: <u>Chief Operating Officer</u>
Email: <u>rflint@parametrix.com</u>	Telephone: <u>509-994-2833</u>
Oregon Business Registry Number: <u>080125-93</u>	OR CCB # (if applicable): _____

Business Designation (check one):

☒ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Non-Profit ☐ Limited Liability Company

☒ Resident Quoter, as defined in ORS 279A.120

☐ Non-Resident Quote. Resident State: _____



Statement of Qualifications | February 20, 2025

WES ENGINEERING MASTER CONTRACT ON-CALL ENGINEERING SERVICES

Wastewater Process Engineering and Operational Support



February 20, 2025

Clackamas County Water Environmental Services (WES)

Submitted via <https://bidlocker.us/a/clackamascounty/BidLocker>

**RE: Proposal #2025-01: WES Engineering Master Contract On-Call Engineering Services:
Category 4: Wastewater Process Engineering and Operational Support**

Dear Selection Committee Members:

Clackamas County's rapid growth presents unique wastewater process engineering and operational challenges for WES. Increasing flows; evolving regulations; aging infrastructure; and the need for energy-efficient, cost-effective treatment require a proactive, collaborative approach. We recognize that your operations staff are the experts on your facilities, and our role is to support, refine, and enhance process solutions in a way that integrates operator expertise, minimizes disruptions, and maximizes long-term benefits. Parametrix offers the following:

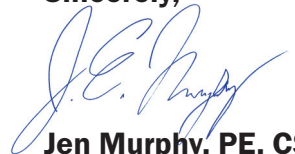
Proven on-call expertise and scalable support. With decades of experience managing on-call contracts for regional agencies facing similar operational and regulatory challenges, we understand how to efficiently manage multiple simultaneous tasks, scale resources, and deliver quick-response troubleshooting and complex, long-term optimization projects. Our team is structured to adapt to evolving priorities.

Holistic Process Troubleshooting and Optimization. Our approach goes beyond isolated fixes—we analyze entire treatment systems, balancing equipment limitations, control strategies, and process interdependencies. By considering how aeration demand, nutrient loading, and energy consumption interact, we optimize operational strategies and control approaches for improved efficiency, reduced costs, and enhanced reliability.

Responsive, Local, and Regional Expertise. Our local team, just 15 minutes away, is available for immediate on-site support, while our broader Puget Sound team provides remote technical expertise and specialty support. Whether responding to process upsets, evaluating system performance, or implementing major process modifications, we bring the right expertise at the right time.

We look forward to partnering with WES as an extension of your staff, delivering practical, operator-driven solutions that improve plant performance and prepare for future challenges.

Sincerely,



Jen Murphy, PE, CSE
Project Manager
jmurphy@parametrix.com



JC Hungerford, PE
Principal-in-Charge/
authorized signatory
jhungerford@parametrix.com

Company information:

Parametrix, Inc.
5 SE Martin Luther King
Jr. Boulevard, Suite 400
Portland, OR 97214
PH: 503.233.2400
Fax: 206.649.4354

Contact Person for SOQ:
Jen Murphy, 503.416.6095

Authorized signatory:
JC Hungerford, Water
Division Manager,
253.604.6630

This SOQ is valid for 90 days.

Categories covered:
Wastewater Process
Engineering and Operational
Support

1. Firm Resources

Parametrix Overview

Parametrix is a full-service engineering and environmental consulting firm, providing innovative and cost-effective solutions for over 50 years. As a 100% employee-owned firm, we foster a culture of commitment, accountability, and long-term performance.

With offices across the Pacific Northwest, Parametrix has established itself as a trusted partner for regional wastewater utilities. Since our inception, we have specialized in wastewater treatment process engineering, operational support, and on-site troubleshooting. Recognizing the intrinsic link between wastewater process performance and control system functionality, we have spent the past 20 years developing a specialized team of wastewater process programmers. These professionals bring extensive hands-on experience with physical, chemical, and biological wastewater processes, combined with deep expertise in PLC programming and control system optimization.

When paired with our personally committed task managers and process leads, we offer a unique combination of expertise and agility. This allows us to quickly assemble teams that

deliver holistic, effective solutions for clients facing operational and process challenges—on their tight timelines.

Our mission is to be the first call for operators and owners facing urgent wastewater needs. Whether the issue requires troubleshooting within hours or system optimizations over days, we provide the expertise, responsiveness, and innovative problem-solving needed to ensure reliable, efficient, and compliant operations.

Resources

Background of the Company. Parametrix was founded in 1969. We have provided wastewater process and engineering support for public clients since the beginning, including county governments in Oregon and Washington.

Size of Staff. Parametrix has more than 850 employees companywide, with 550+ based in the Northwest, offering the resources to meet shifting project demands. Our Portland office includes 130 professionals, a third of whom routinely work on wastewater projects, including 8 treatment process professionals and more than 60 full-service water facilities engineers.

Location of Key Offices. We anticipate delivering services from our Portland and Seattle-area offices. The Portland

office is located just 15 minutes from the Clackamas County Development Services Building. As demonstrated in the past, we can be on-site to meet with WES with an hour's notice. We are committed to providing Clackamas County with timely, professional service with our local and companywide professionals. Our proximity to and familiarity with Clackamas County, together with established relationships, will facilitate clear communication.

Overall Firm Experience. The table below displays the on-call experience we have providing similar services.

Client	Years	# Tasks
City of Portland BES	25+	50+
LOTT Clean Water Alliance	30+	100+
King County WTD	30+	60+
Pacific City Joint Water Sanitary Authority	20+	25+
Sunriver Environmental	20+	50+
City of Orting	35+	500+
City of Sumner	50+	150+
City of Yelm	10+	10+
City of Puyallup	20+	50+
Tulalip Tribes	30+	200+

2. Local Experience

The following projects, completed within the past 5 years, highlight our experience delivering quality wastewater process engineering and operations on-call services on time and within budget.

BES Treatment On-Call | Portland BES | Portland, OR

DATES: 2006–Ongoing

*REFERENCE: Matt Hewitt, 503.823.2902
matt.hewitt@portlandoregon.gov*

Parametrix has delivered 50+ projects in the past several decades. Jen Murphy, Scott Weirich, Brandon Moss, and Soraya Azahari bring experience from emergency and nonemergency task orders at the Columbia Boulevard Wastewater Treatment Plant (CBWTP). Work in the past 4 years includes:

CEPT Improvements for pH Compliance.

We led process diagnosis/optimization to the CEPT wet weather treatment system to improve effluent pH compliance by analyzing operating data and conducting lab and pilot testing. We compared the cost and process benefits of switching to a polyaluminum chloride coagulant without the risk of exceeding effluent water quality. As the City transitions to PACl, we are supporting improvements.

Value to WES: Skilled in pilot testing, process modeling, and regulatory compliance.

Process Support. The Parametrix-led team assessed secondary treatment performance at CBWTP after a major process upset. The team analyzed data; conducted on-site sampling; and identified issues with anaerobic selector performance, sludge wasting, dissolved oxygen setpoints, and step feed approaches. Updates to standard operating procedures improved system stability. The team also updated process control strategies and operator-facing graphics to optimize aerobic solids retention time. Ongoing efforts include additional process monitoring.

Value to WES: Data-driven approach that integrates field testing, process troubleshooting, and real-time monitoring.

Headworks and Wet Weather Influent Pump Station Electrical and Instrumentation Improvements.

This project modernizes electrical and instrumentation systems, replacing aging electrical and controls equipment and implementing gas detection per NFPA 820. Key improvements support real-time monitoring, upstream and downstream modeling, and pump control optimization to increase plant and collection system asset life.

Value to WES: Expertise in optimizing pump stations for process and asset life.

Process Monitoring Improvements.

Parametrix is finalizing instrumentation and control upgrades at CBWTP to optimize primary and secondary treatment. Key improvements include TSS, COD, and pH tracking, enhanced clarifier and digester gas monitoring, and real-time diagnostics for process optimization and regulatory compliance.

Value to WES: Specialized expertise in instrumentation and process automation for operational insight.

CBWTP Resource Recovery Plan.

Parametrix is developing a long-term strategy for anaerobic digestion, biosolids drying, struvite mitigation, and off-site recycled water use at CBWTP. The plan's adaptive approach addresses potential biosolids regulations, fuel costs, Class B disposal market shifts, and operator needs. Work includes technology assessments and analysis; digester capacity projections; biogas analysis to optimize RNG revenue; biosolids market assessment that incorporates regulatory, agricultural, and economic trends for risks/opportunities; and data analysis of digesters' volatile solids reduction performance. This will result in cost-effective, adaptable investments that balance economic, regulatory, and stakeholder needs for the long-term.

Value to WES: Evaluation using economics and stakeholder needs to increase value.

On-Call/BITP Process Improvements | LOTT Clean Water Alliance (LOTT) | Olympia, WA

DATES: 1990–Ongoing

REFERENCE: Matt Kennelly, 360.528.5750, mattkennelly@lottcleanwater.org

For over 30 years, Parametrix has held consecutive on-call contracts, under which our team has provided equipment upgrades, process improvements, and ongoing optimization at the 60 mgd Budd Inlet and the 5 mgd Martin Way plants.

Budd Inlet Biological Process Improvements Project. In addition to providing new aeration, mixing, and control systems, this project included ongoing process optimization efforts after initial startup. This resulted in decreased process complexity and a process that ultimately achieved 1 mg/L effluent TIN in all seasons, significantly below the design target of 3 mg/L. Advanced process control strategies included ammonia feedback for aeration, nitrate feedback for internal recycle, and model predictive control for swing zone control.

Additionally, under the on-call Parametrix provided:

- ▶ Sludge Dewatering System Upgrades
- ▶ UV Disinfection Upgrades
- ▶ 12.47 kV Service Entrance Switchgear Replacement for reliable dual-utility feed operation

Value to WES: Focused process improvements that improve performance, increase process stability, and decrease maintenance.

Black Butte Ranch Wastewater Master Plan | Black Butte Ranch| Sisters, OR

DATES: 2023–Ongoing

REFERENCE: Swen Petterson, 541.595.1280, spetterson@bbranch.org

Parametrix is assisting Black Butte Ranch in meeting regulatory compliance for its wastewater collection and treatment system. Immediate efforts focused on optimization of the existing process to mitigate accumulation of filamentous bacteria resulting from carbohydrate imbalances causing sludge bulking.

Value to WES: Regulatory compliance and process specialists working with plant staff for process modifications and DEQ approval.

Wastewater Process and Engineering On-Call Services | City of Yelm | Yelm, WA

DATES: 2010–Ongoing

*REFERENCE: Patrick Hughes, 360.458.8499
patrickh@ci.yelm.wa.us*

Parametrix has helped the City maintain Class A water production and 10 mg/L total nitrogen effluent water quality at its WRF. Process optimizations were incorporated to restore WRF nitrogen removal after a process upset. These included ORP monitoring; blower/aeration control strategy updates; and carbon and alkalinity supplementation.

Parametrix updated operator-facing graphics to provide operators with process visibility and control of reactor set points. For process optimization, Parametrix leveraged BIOWIN to optimize future loading; temporary alkalinity feed system; and facility SOP updates

Value to WES: Operations and process optimization provided capacity increases for a 10-year delay in required upgrades.

3. Project Team

Our multidisciplinary team brings the expertise and technical skills needed to support Wastewater Process Engineering and Operational Support for WES (**Exhibit 1**).

Process area leads, Soraya, Jen, Scott, and Elizabeth bring recent process experience from several related projects in the Pacific Northwest. They will serve as the primary task order managers for any tasks related to their process area, ensuring consistency, institutional knowledge, and efficiency for recurring tasks. They are backed by specialized team members, providing targeted expertise and scalable support staff to meet WES' delivery and budgetary needs.

We have outlined the qualifications and experience that make these individuals the right fit for your project needs. All of our key staff have the necessary availability. Resumes of our key staff are provided in the appendix.

Our project manager, Jen Murphy, is an experienced leader in wastewater, working throughout the northwest and broader United States on treatment planning and design projects and ongoing process control and optimization support.

EXHIBIT 1: TEAM ORGANIZATION CHART



50+
Support Staff Available

STAFF NAME/ROLE	QUALIFICATIONS	PROJECT EXPERIENCE
JEN MURPHY, PE, CSE  Project Manager, Aeration and Blowers 19 Years of Experience	- Has delivered many on-time and within budget projects, including 10 at WWTPs in the past 5 years - Senior technologist/engineer on treatment projects including several optimizing primary treatment processes via CEPT and CFD - Licensed CSE with expertise in aeration and optimization of blowers, air distribution, and biological processes	- Patapsco WWTP Existing Plant Improvements for Enhanced Nutrient Removal City of Baltimore - CBWTP CEPT Improvements for pH Compliance City of Portland - Budd Inlet Process Improvements LOTT

STAFF NAME/ROLE		QUALIFICATIONS	PROJECT EXPERIENCE
	SORAYA AZAHARI, PE Headworks 11 Years of Experience	► Brings experience in design of wastewater headworks facilities, utilizing all types of coarse through ultra-fine screens for plants with flows from 2mgd to 800 mgd ► Brings expertise in startup and commissioning, effective troubleshooting, and final optimization for smooth turnovers	► CBWTP Headworks and WW Influent Pump Station City of Portland ► Headworks Upgrades City of Shelton ► Section 14 WWTP Headworks Replacement NW Natural Water
	SCOTT WEIRICH, PHD, PE Secondary Treatment 20 Years of Experience		
	ELIZABETH MILLER, PE Biosolids and Digestion 6 Years of Experience	► Has familiarity with biosolids processing systems from design through startup for new Class A solids processes ► Provides coordination during design and construction with stakeholders	► CBWTP Resource Recovery Plan City of Portland ► Yelm WRF Upgrade SDC City of Yelm ► Orting WWTP Upgrade City of Orting ► BITP Digester Improvements LOTT
	DOUG BERSCHAUER, PE MBRs 42 Years of Experience		
	LAYNE MCWILLIAMS, PE Energy and Biogas, Training 33 Years of Experience	► Has integrated energy efficiency concepts and technologies into wastewater treatment design and operations, including over \$1M in incentives for LOTT process improvements ► Building relationships with plant operators at more than 150 plants has helped drive process optimization	► WWTP MBR Upgrade Sunriver Environ. ► Section 14 WWTP Improvements NW Natural Water ► Operation and Process Evaluation North Slope Borough ► CBWTP Biogas Monitoring Improvements City of Portland ► Industrial WWTP Biogas Upgrading Facility Port of Sunnyside ► BITP Digester Improvements LOTT
	JON GORDON, PE Odor Control 12 Years of Experience		

STAFF NAME/ROLE		QUALIFICATIONS	PROJECT EXPERIENCE
	BRIAN PIPPIN, PE Compliance and Mixing Zone Analysis 37 Years of Experience	▶ Performs dilution modeling to support NPDES permitting for major industrial dischargers ▶ Is well-versed in all technical and regulatory topics pertaining to industrial, wastewater, and stormwater mixing ▶ Has extensive discharge permitting experience in Region 10 ▶ Has relationships with ODEQ water quality program personnel	▶ WWTP Outfall Mixing Zone Study City of Duvall ▶ Mixing Studies, NPDES Support City of Marysville ▶ Mixing Studies, Permitting Support Tulalip Tribes
	BRANDON MOSS, PE Hydraulics and CFD 8 Years of Experience	▶ Specializes in integrated simulation, design, and planning for wastewater infrastructure, including experience with AFT Fathom, Impulse, and Arrow for modeling compressible and incompressible fluids in steady and unsteady conditions and CFD modeling expertise for hydraulics and process ▶ Uses in-house, custom-developed tools for modeling	▶ Biological Process Improvements LOTT ▶ Water Reclamation Facility Hydraulic Optimization City of Yelm ▶ WWTP Aerobic Basin Mixing Optimization Sunriver Environmental
	GLEN BARCUS Process (SCADA) Programming 38 Years of Experience	▶ Electrical designer and process control and equipment programmer with wastewater process programming experience ▶ Has expertise in variable speed drives, wastewater process control, instrumentation, hydraulics, PLCs, HMIs, and SCADA systems	▶ City of Edmonds On-Call PLC & Controls City of Edmonds ▶ On-Call Engineering Services Cascade Water Alliance ▶ On-Call SCADA Support City of Auburn
	JOE MITZEL, PE Industrial and Side Stream Process 12 Years of Experience	▶ Has expertise in wastewater recycling permitting and design, side-stream treatment processes, hydraulic modeling, and environmental compliance ▶ Supports Army Corps of Engineers 404 Program permitting	▶ Maintenance & Management Plan Update Port of Morrow ▶ NPDES Permitting Support City of Sandy ▶ Quil Ceda Village Reclaimed Water Mixing Study Tulalip Tribes
	DREW NORTON, PE Air Permitting and Waste Gas Burners 9 Years of Experience	▶ Has expertise in design and construction of biogas collection, handling, distribution, beneficial reuse, and emissions control for wastewater and solids waste on-call contracts ▶ Has experience designing, constructing, monitoring, and troubleshooting landfill and digester gas collection systems and leachate collection and treatment systems	▶ Industrial WWTP Digester Biogas Enclosed Flare Port of Sunnyside ▶ Digester Waste Gas Burner Replacement LOTT

Specialized Equipment or Software.

The above staff and 50+ support staff in the Pacific Northwest use specialized equipment and software to address complex wastewater conveyance and treatment process and operational challenges. We use a rapid, data-driven approach to diagnose and resolve wastewater treatment inefficiencies and process upsets. Our systematic process ensures that root causes are identified, solutions are tested, and long-term stability is achieved. We have recently applied this methodology following major process upsets for clients such as the City of Portland, City of Yelm, Black Butte Ranch, and NW Natural Water, improving system stability through data analysis, on-site sampling, SOP updates, and control system enhancements.

This approach ensures efficiency, compliance, and cost savings, allowing our team to meaningfully support Clackamas WES's treatment operations.

To fully assess plant performance, we use the following software and equipment:

SOFTWARE/EQUIPMENT	USE
DESKTOP/SOFTWARE PROCESS ANALYSIS TOOLS	
FLOW 3D-HYDRO (CFD)	3D multi-fluid, multiphase CFD modeling for hydraulics and treatment process
Blowin and SIMBA	Biological, chemical, and physical treatment process modeling
Parametrix WWTP Thermal Modeling Toolkit	Inhouse 1D thermal process model using NREL climate data, process model outputs, and other plant data to forecast future effluent temperatures and evaluate thermal mitigation alternatives
MegaWATS/MegaVENT	Physical, biological, and chemical process modeling for collections systems to understand impact of collection system changes on plant influent constituents and system-wide sewer water quality and air movement for odor and corrosion management
FIELD EQUIPMENT PROCESS ANALYSIS TOOLS	
Elcometer Ultrasonic Thickness Gauge	Nondestructive thickness measurement of pipes and pump volutes
Vibxpert II Vibration Monitoring	Vibration monitoring for bearing misalignment, shaft wear, and impeller cavitation identification
Flexim Fluxus Ultrasonic Flow Meter	Clamp-on flow meter to assess and verify pump operating points without disrupting plant operations
Pressure Monitoring	High-frequency pressure monitoring to assess pipeline transient responses for fatigue analysis
BOD/COD Testing	Supplement plant labs for increased BOD and COD measurement during process upsets
Constituent Testing (NH ₃ , H ₂ S, pH, etc.)	Measure process constituents to monitor and diagnose process upsets and calibrate models
Thermal Imaging	For predictive maintenance, identification of equipment shorts and potential future failures

4. Project Approach

Our approach to this on-call contract can be best summarized as “Wastewater Urgent Care.” When challenges arise, we want to provide a single entry point, obtain a summary of the situation, and then connect you with the appropriate specialist to help. For emergency situations, we can quickly assemble a response group, including WES staff, and work solutions in real time. For less urgent matters, one of the process leads will take point and create the initial work plan. After review and feedback from WES, the work plan can form the basis for the task order scope and schedule effort.

Delivery Approach

Jen will serve as the point of contact for WES. Layne will be the secondary point of contact when needed. The workflow will depend on the urgency of the issue.

Urgent/Emergency Matters. These tasks require quickly understanding the issue, allocating resources, and coordinating with WES staff that have knowledge of the issue and can respond quickly. To meet these needs, Jen will connect with WES to understand the problem and support needs; gather a team with the needed expertise; establish a regular communication cadence via email and meetings, and set up an MS Teams site for real time data exchange.



YEARS

Serving
Our Clients



850+

FIRM-WIDE STAFF



Staff to Support
Wastewater
Process
Engineering



180+

STAFF IN
OREGON

She will iterate through the following steps with continuous feedback with WES throughout:

1. Define the issue and potential causes via water professionals network (individuals with boots on ground experience with issue)
2. Analyze information to identify possible causes and data gaps
3. Gather additional data and analyze if needed
4. Provide recommendations
5. Make changes (WES or Parametrix)
6. Monitor for additional issues

This is an iterative process that can take a few hours or several seasons as has proven successful for clients such as LOTT, Portland BES, Sunriver, and Yelm.

In parallel with real-time problem-solving, a scope of work can be developed for each stage as needed.

At the conclusion, Parametrix will create a summary document, analysis, or memorandum so that WES has full documentation moving forward.

Non-Emergency Matters. Jen will assemble a team of the most appropriate process leads. Through further discussion with WES, the process lead will create a work plan and description of the desired deliverable and then create a scope, budget, and schedule. Parametrix will meet with key staff to clarify the scope, refine approaches, recognize opportunities to share staff or equipment, and discuss schedule constraints. Once approved by WES, Parametrix staff will execute the work under the supervision of the process lead. **Exhibit 2** demonstrates our task order delivery process from start to closeout.

A Commitment to Communication

Communication is important for every project and even more so when tasks involve changes to the treatment process. Our team is committed to proactive, efficient communication so that we can work together to complete every task under this on-call contract. Our primary point of contact is project manager Jen Murphy, with Layne McWilliams serving as the team's secondary contact if Jen is unavailable. Jen is supported by task leads (**Exhibit 1**).

We have successfully worked with Pacific Northwest agencies using in-person meetings, video conferences, real time data sharing, emails, telephone calls, written memos, and progress reports as a means to maintain open lines of communication throughout the contract.

Kickoff Meetings. Parametrix will meet with WES at the start of the task to make sure task goals and expectations are clear to all team members. The focus will be on defining lines of communication; cost-saving opportunities; content of budgets, scopes, and reports; conflict resolution procedures; and recognition of constraints.

Quality Program. QA and QC are integrated into our standard practices. QC is exercised during the initial work. We have found that using BlueBeam and MS Word track-changes are efficient methods of performing QC, especially during required tight turn arounds. In order to deliver a recent wet weather sampling plan for WES we used this approach to provide review, edits, and final documents in just 12 hours, allowing WES to receive the plan several days prior to the wet weather event and prior to issuance of the formal contract. We can also use traditional means (such as a review comment and resolution spreadsheet), depending on WES' preference. Review meetings with WES and project review staff will keep the project moving, address concerns and questions, and track decisions during design. Regardless of the type of deliverable, our final products and recommendations will be checked for conformance with industry standards and against the scope, budget, and schedule.

Budget Controls. Parametrix will perform tasks per the agreed-upon scope and monitor budgets and schedules. With planning, weekly progress monitoring, and real-time tracking via our budgeting/timesheet software, we will alert you to out-of-scope work, delays, or significant issues that could impact delivery.

Parametrix Select Capabilities

We also offer approaches to the following services that may be required:

Evaluating Plant Performance and Troubleshooting Operational Issues.

Parametrix delivers data-driven performance analysis by integrating advanced diagnostic tools with proven methodologies to optimize wastewater treatment operations. Our approach ensures precise issue identification and long-term operational reliability.

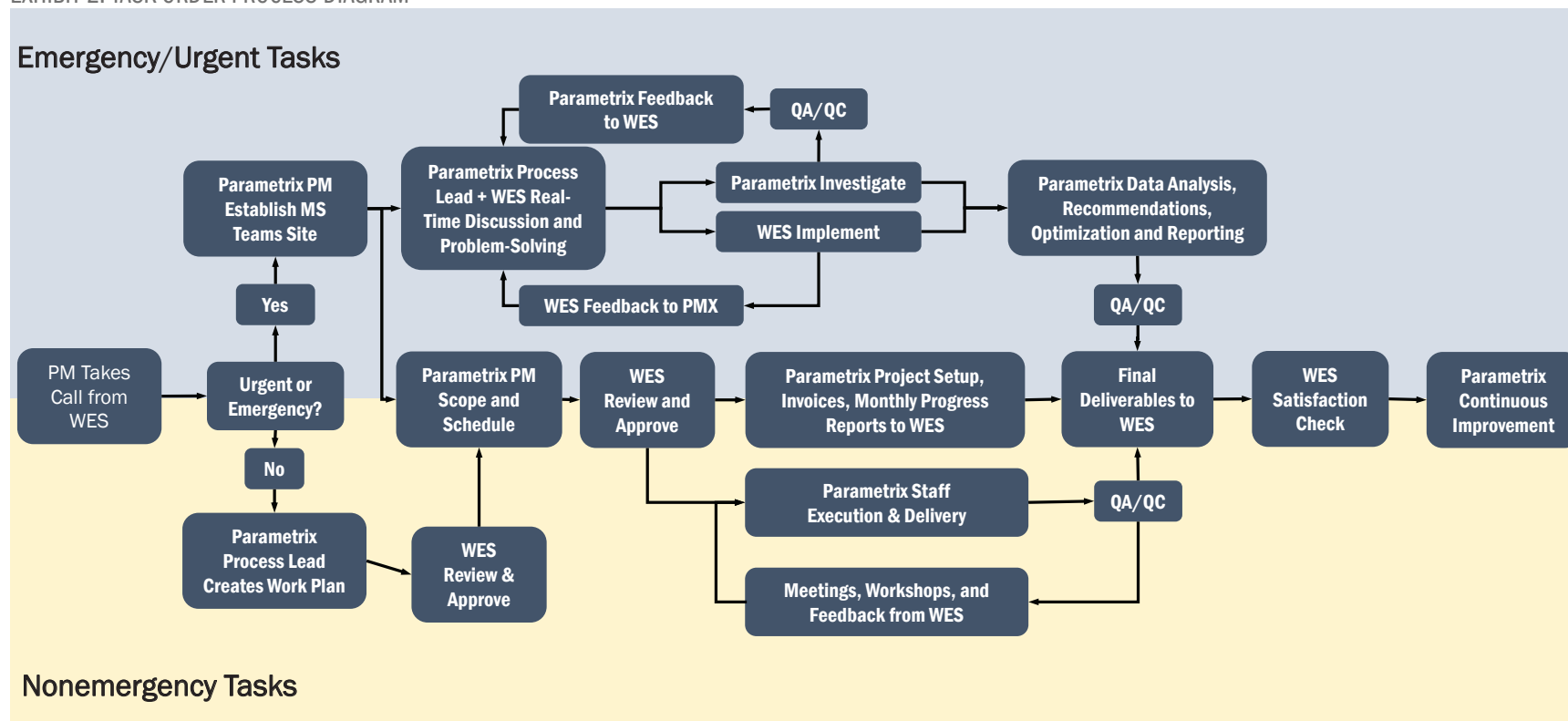
Technical Reporting, Data Analysis, and Process Improvement Strategies.

Our experience with data mining and operator-focused active listening results in a proactive approach to performance evaluation and troubleshooting. We emphasize data-driven decision-making and statistical analysis. Our process data analyst, Lauryn Guerissi, specializes in statistical data analysis of process and performance data for permit compliance and operational troubleshooting. She and her team can quickly analyze several years' worth of data with numerous parameters to eliminate distracting correlations and allow the team to focus on the likely causations of process upsets. This has proven helpful for the Port of Morrow and the City of Portland. This insight is useful in identifying optimization opportunities and patterns that can inform improvements.

Equipment Upgrades, Process Modifications, and Predictive Maintenance. Parametrix brings preliminary, primary, secondary, and solids handling expertise having successfully evaluated and implemented facility improvements at treatment plants ranging from 50,000 gpd to 800 mgd. Each process area lead and specialist is supported by practice area support groups, bringing additional experience with dozens of process equipment manufacturers and lessons learned on hundreds of projects large and small at plants similar to WES' Tri-Cities and Kellogg Creek WRRFs.

Training and Capacity Building. We recognize the importance of skilled staff and the potential for operator shortages and offer comprehensive training programs. Layne McWilliams, Scott Weirich, Jen Murphy, and Brandon Moss have provided over 200 trainings on topics from energy efficiency and pump station operation and maintenance to aeration system optimization, biological nutrient removal, and compliance testing that are designed to be participant-centered, enhance the capabilities of O&M staff, and provide practical knowledge and approaches to manage and optimize treatment processes.

EXHIBIT 2: TASK ORDER PROCESS DIAGRAM



APPENDIX A: Resumes



JEN MURPHY, PE, CSE



Benefit to WES

- Experience troubleshooting and integrating complex control systems, including PLCs and DCS for treatment plants, enables rapid identification and resolution of operational challenges for reliable, efficient, and compliant operation
- Expertise in aeration and secondary treatment process optimization
- Understands primary treatment, aeration, and blower systems, combining process engineering with hands-on operational insights

Project Manager

YEARS OF EXPERIENCE: 19 ■ BS, MECHANICAL ENGINEERING, UNIVERSITY OF MARYLAND ■ PROFESSIONAL ENGINEER - CONTROL SYSTEMS, OR #92476, WA #55857 ■ OSHA CONFINED SPACE ENTRY

Jen is passionate about helping wastewater clients do more with less. With diverse experience as a project manager, mechanical and process engineer, control systems integrator, licensed heavy diesel mechanic, and civil construction foreman, she excels in solving complex challenges. She has delivered projects, troubleshoot process and equipment issues, and led optimization efforts at more than 50 pump stations and two dozen wastewater treatment plants, ranging from 50,000 gpd to 800 mgd. Jen brings a holistic understanding of wastewater facilities, integrating biological, chemical, and physical processes with mechanical, instrumentation, controls, and electrical systems to optimize operations.

RELEVANT EXPERIENCE:

Biological Process Improvements Detailed Design | Olympia, WA

LOTT Clean Water Alliance

Jen was the I&C lead, senior mechanical engineer, and design manager on this \$40M+ project focused on optimization and process intensification to allow for full time biological nutrient removal. New instrumentation was provided throughout the process and new control strategies included ammonia based aeration control for aeration control, nitrate feedback for internal recycle control, and model predictive control for swing zone control. The project decreased tankage by 25%, provides yearly energy savings of \$125K, and allowed the plant to achieve effluent concentrations less than the permit required 4 mg/L total inorganic nitrogen. Current performance makes this plant one of the most advanced Class III BNR systems in the Country.

CBWTP Process Monitoring Improvements | Portland, OR

City of Portland

Jen is evaluating instrumentation throughout the preliminary, primary, secondary, and digestion processes. She is recommending I&C strategies to improve the chemically enhanced primary treatment, secondary treatment, and digestion processes based on the analysis of several years of operational data and several workshops with operators.

Sandy Pump Station Wet Well Improvements | Troutdale, OR

Urban Flood Safety & Water Quality District

Jen was the senior CFD engineer for this project improving the intake hydraulics of this 50 mgd pump station. This project entailed pump performance before and after improvements, analysis to determine the presence and relative intensity of cavitation, multi-modal CFD analysis, optimization of modifications, and design of improvements for fabrication and installation by divers. Post install testing showed elimination of cavitation under all operating conditions.

Process Water Stormwater Treatment | Portland, OR

Confidential Client

Jen was the senior hydraulic and process engineer for predesign, design, construction, and post-construction optimization to provide supplemental (polishing) treatment of the stormwater runoff from this industrial recycling facility's metal processing systems. The final polishing treatment system reduces the total suspended solids and zinc within the stormwater effluent to maintain compliance with their industrial stormwater pre-treatment permit.

SORAYA AZAHARI, PE



Benefit to WES

- ▶ Has extensive on-site construction engineering experience and has worked closely with contractors and vendors, allowing her to provide design with constructability at the forefront while establishing meaningful connections with the team
- ▶ Provides tailored solutions based on client operations, plant performance, maintenance issues, and operability
- ▶ Is knowledgeable with current and emerging treatment technologies

Headworks, Startup, and Commissioning

YEARS OF EXPERIENCE: 11 ■ MS, CHEMICAL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF PUTRA MALAYSIA ■ BS, ENVIRONMENTAL ENGINEERING, UNIVERSITY OF DELAWARE ■ PROFESSIONAL ENGINEER - CIVIL, OR #101398PE

Soraya has experience in the design and construction of water and wastewater treatment facilities focusing on headworks facilities, tank design pump stations, coordination of site utilities, and collection systems. She has experience in delivering projects through conventional design-bid-build and alternative delivery methods (CMAR/CMGC). She has been an integral part of construction design for projects up to \$450M on plants with capacities up to 800 mgd. In addition, she brings experience leading commissioning of new and upgraded treatment plants. Soraya also coordinated the commissioning for new process mechanical equipment automation and system integration to various SCADA systems, tuning and startup inspections, and troubleshooting.

RELEVANT EXPERIENCE:

Back River WWTP Headworks | Baltimore, MD

City of Baltimore

Soraya served as project, lead field, and commissioning engineer for works originating from design to construction through startup and commissioning for the \$430M CMAR upgrades. The plant treats an average daily flow of 180 mgd, peak design flow of 400 mgd, and a wet weather flow of 800 mgd. Design comprised of the construction of a new coarse screen facility, influent pumping station, fine screen facility, grit facility, blower building, equalization storage tanks, chemical feed facility, and odor control facility. Upgrades were also performed for the dewatering pump station and the 33 kV electrical substations.

Patapsco WWTP Fine Screen Headworks Improvements | Baltimore, MD

City of Baltimore

Soraya served as design engineer for upgrades to existing screening pumping and solids removal with average daily flow of 63 mgd and peak of 250 mgd. Upgrades provided trash screening systems, coarse screen and fine screen elements, and two continuous belt screens. The project included replacement of VFDs for screening equipment and upgrades to electrical system.

Section 14 Wastewater Treatment Plant Improvements | Yuma, AZ

NW Natural Water

Soraya is the design manager and lead process mechanical engineer for the design and construction of upgrades at the 1-mgd treatment plant. Design included the screen replacement with new rotary drum screens, screw presses, a new sludge holding tank with a valve vault, one blower, replacement of polymer injection system, new electrical room, membrane maintenance tank, and odor control system.

Shelton Water & Wastewater Treatment On-Call – Headworks Improvement | Shelton, WA

City of Shelton

The upgrades include the design of a new headworks facility to accommodate the increased flow from 0.4 mgd to 4.6 mgd. Design includes a two-stage screening with two screens in parallel and a new grit facility to provide better removal efficiency and protection for downstream MBR membranes. Soraya serves as lead process mechanical engineer.

GLEN BARCUS



Benefit to WES

- ▶ Is an advanced level PLC programmer with Allen Bradley, Siemens, and Automation Direct PLCs
- ▶ Has expertise in process control and equipment programming
- ▶ Has design and maintenance experience with MBRs, biological nutrient removal facilities, SBRs, and conventional activated sludge plants as well as Class A and B solids processing facilities

Process (SCADA) Programming

YEARS OF EXPERIENCE: 38 ■ CERTIFICATE, MACHINE DESIGN TECHNOLOGIES, CLOVER PARK TECHNICAL INSTITUTE ■
WONDERWARE ARCHESTRA CERTIFIED DEVELOPER ■ INDUSTRIAL APPLICATION SERVER CERTIFICATION

Glen is Parametrix's lead process programmer with considerable controls experience commissioning and optimizing dozens of plant process and control systems. Within these industries, Glen brings process biological, chemical, and physical process expertise and integration of variable speed drives, process control, instrumentation, hydraulics, PLCs, HMIs, and SCADA systems.

RELEVANT EXPERIENCE:

City of Edmonds On-Call | Edmonds, WA

City of Edmonds

Glen was the lead designer and process programmer for upgrade of the entirety of the plant control systems and process control strategies. Glen has provided on-call services to the City for the last four years. He was responsible for a major PLC system upgrade, replacing 20-year-old legacy PLC hardware and SCADA system migration upgrade to Wonderware System Platform. Glen provides day-to-day process and controls support and troubleshooting, as well as emergency SCADA support when needed.

City of Orting On-Call | Orting, WA

City of Orting

As part of the on-call services, Glen has provided support to water and wastewater departments including phone support, remote trouble shooting, system diagnostics, on-site support and troubleshooting. Glen has also provided process improvement suggestions and software implementation. Glen is working on the addition of VFDs to the City Well 1 project. This project included the installation of VFDs on the domestic water boost pump skid.

City of Edmonds BIO-Char | Edmonds, WA

City of Edmonds

Glen had provided I&C, programming, and construction support to replace the City wastewater sludge incinerator with an innovative gasification system that converts sludge into activated carbon. Glen was the lead I&C designer for planning new communications between the existing control network and vendor-provided equipment. Glen worked with vendors to follow plant standards and implemented control strategy updates throughout the plant. Glen also provided services during construction and startup.

SCADA System Assessment and Recommendations | Auburn, WA

City of Auburn

Glen assessed a 42-site SCADA system, providing recommendations based on the existing system's software version, architecture, and configuration. The work included a complete backup of the SCADA system for off-site review, evaluation for upgrade, and enhancement recommendations based on O&M staff input. Workshops with the O&M staff enabled Glen to evaluate the current condition of the SCADA system and gather staff input and concerns.

DOUG BERSCHAUER, PE



Benefit to WES

- ▶ Has been responsible for all phases of water and wastewater projects, from planning through construction
- ▶ Designed the first application of Kubota flat plate membrane in North America
- ▶ Specializes in wastewater facility planning using decision science, helping clients pick the right technology

MBRs

YEARS OF EXPERIENCE: 42 ■ MS, ENVIRONMENTAL/HYDRAULIC ENGINEERING, UNIVERSITY OF WASHINGTON ■ BS, CIVIL ENGINEERING, UNIVERSITY OF WASHINGTON ■ PROFESSIONAL ENGINEER - CIVIL, OR #17940PE, WA #24012, ID #20942

Doug has experience in wastewater facility planning and design. He has performed comprehensive quality review and facility planning studies for wastewater treatment, has implemented pilot studies, and served as process engineer for the design of new facilities and upgrades. His expertise includes evaluating innovative technologies and helping clients select the preferred alternative. He also has expertise in membrane technology and works closely with regulators to obtain approvals and assists with negotiations and startup. He possesses a working knowledge of construction methods and utility system operation and has been responsible for developing operation and maintenance procedures for municipal utilities.

RELEVANT EXPERIENCE:

Sunriver Wastewater Treatment Plant Upgrade | Sunriver, OR

Sunriver Environmental, LLC

Doug served as the engineer of record for this project, where the conventional activated sludge process was replaced with an MBR with nutrient removal. He conducted workshops with the client to select the best treatment process and specific equipment to be installed on the project; provided senior review; and is the on-site engineer during startup of the new facility. The project also included chlorine disinfection.

Quil Ceda Village MBR Treatment Facility Upgrade | Tulalip, WA

Tulalip Tribes

Doug was the lead process engineer for overall design development. He worked with tribal leaders and operators to select membrane equipment and identify plant layout. He organized and managed workshops that allowed nontechnical staff to understand the impacts of major design decisions and come to a decision. He also served as the design team lead of the 1-mgd flat-plate MBR and associated treatment plant, including both UV and sodium hypochloride for disinfection and residual.

Final WRP Upgrade | Grants Pass, OR

City of Grants Pass

As a member of the value engineering team, Doug was charged with the responsibility of reviewing process data and projections for the plant. Through this analysis, the City was able to scale back the proposed plant upgrade that resulted in a savings of approximately \$6M.

Section 14 WWTP Upgrade | Yuma AZ

Foothills Utilities

Doug was the project manager and lead process engineer for this project, which included new screens, screw presses, and odor control. The plant is an MBR with nitrogen removal. Doug is the senior engineer on the next upgrade of the facility.

Operation and Process Evaluation | Barrow, AK

North Slope Borough

Doug conducted a full treatment plant (MBR) evaluation covering both operational and process. He developed a technical memorandum with observations and recommendations for treatment optimization and upgrades. The plant includes nitrification and denitrification as part of the overall treatment process.

JON GORDON, PE



Benefit to WES

- Has expertise in odor evaluations, odor control design, wastewater collection process and airflow modeling, hydraulic modeling, and construction management

Odor Control

YEARS OF EXPERIENCE: 12 ■ MS, ENVIRONMENTAL ENGINEERING, JOHN HOPKINS UNIVERSITY ■ BS, CHEMICAL ENGINEERING, UNIVERSITY OF VIRGINIA ■ PROFESSIONAL ENGINEER, MD #53572

Jon is a water/wastewater engineer experienced in process mechanical design and construction management as well as modeling and data collection and analysis. He is always thinking about how to add value and push industry capabilities forward. Jon has expertise in odor control and a passion for understanding the impact work can have on communities.

RELEVANT EXPERIENCE:

101st Avenue Pump Station Upgrade | Portland, OR

City of Portland

The project included design of an odor control system for a pump station in close proximity to sensitive neighbors. Jon led the design of the small 1,000-cfm system consisting of a carbon scrubber with integral blower.

Force Main Asset and Odor Control Management Programs | Vancouver, WA

Clark Regional Wastewater District

Jon assisted in developing a road map for odor control program development, assessing current odor-related data collection, and developing an approach to consolidating odor-related data. Jon developed the road map, hosted workshops to educate District staff, developed a MEGA-WATS/MEGA-VENT model to identify the root cause of systemic odor control issues at the Royle Road Pump Station area, and oversaw development of a report with proposed recommendations for data consolidation.

Discovery Corridor Wastewater Transmission System Phase 2A | Vancouver, WA

Clark Regional Wastewater District

This project included design of Phase 2A expansion improvements at the Pioneer Canyon, Neil Kimsey Regional, and Legacy Pump Stations.

Jon developed a MEGA-WATS/MEGA-VENT model of the Discovery Corridor, compared model results to field data, and drafted a report discussing the potential odor impacts of the improvements and proposing recommendations on how to mitigate impacts.

Screen Replacement Evaluation | Yuma, AZ

NW Natural Water

This project included providing design and construction services for improvements at the Section 14 WWTP. Jon led the design of an entirely new centralized odor control system, consisting of a bio-trickling filter and carbon polishing unit sized for roughly 10,000 cfm.

Odor Control Study | Yuma, AZ

NW Natural Water

This project submits treatment odor control design reports required by Aquifer Protection Permits to AZDEQ for four WWTPs sized from 0.1 to 1.5 mgd. Jon oversaw monitoring to support development of the reports, drafted the reports on an expedited timeline, and coordinated with DEQ to bring the plants into compliance with the APPs.

LAYNE MCWILLIAMS, PE, JD



Benefit to WES

- Is experienced as a designer, installation contractor, commissioner, and operational optimizer of secondary treatment plants, including aeration systems, pumping, digester mixing, plant water and compressed air, and disinfection
- Is experienced in renewable natural gas and associated RINs tracking and monitoring for carbon emissions reductions as well as emissions inventories and climate planning for water and wastewater facilities

Energy and Biogas, Training

YEARS OF EXPERIENCE: 33 ■ JD, BUSINESS LAW, LEWIS & CLARK LAW SCHOOL ■ BS, MECHANICAL ENGINEERING, MASSACHUSETTS INSTITUTE OF TECHNOLOGY ■ PROFESSIONAL ENGINEER, WA #34346 ■ REVIEWER, WEF STANDARD 37-24, OPERATION OF NUTRIENT REMOVAL FACILITIES

Layne has a diverse background in municipal engineering, construction, and law. He is a proven expert in helping municipal and industrial facilities identify and implement capital, O&M, and strategic energy management (SEM) projects and programs. Since 2010, Layne has worked to integrate energy efficiency concepts and technologies into the water/wastewater sector, engaging with more than 200 facilities across the U.S. His leadership, experience, and ability to build trusting relationships with plant and system operators has helped drive significant energy savings. Layne developed the national four-day curriculum and led several DOE-sponsored Better Plants training engagements for municipal facilities throughout the country.

RELEVANT EXPERIENCE:

CBWTP Process Monitoring Improvements | Portland, OR

City of Portland

Parametrix developed an initial list of recommended instrumentation changes to improve the operators' ability to monitor and optimize the plant's treatment performance. Layne led the work for the biogas handling and upgrade facilities. The metering and quality monitoring requirements for biogas were complicated under the EPA's Biogas Regulatory Reform Rules (BRRR), as well as the plant's interest in potentially accepting food waste diverted from landfilling. The complicated structure of BRRR combined with the multitank, multifeed stream digester complex at the plant required careful consideration and planning of instrument type, number, and location to maximize revenue potential while not becoming expensive and time-consuming to maintain.

Port of Sunnyside Biogas Upgrading Facility | Sunnyside, WA

Port of Sunnyside

As a subconsultant, Parametrix is working to design and build a renewable natural gas upgrading system with injection into a local commercial gas line for this industrial WWTP. The work includes site civil,

process interconnection, electrical, structural, and I&C engineering design and permitting to assist with planning and construction. Parametrix is providing detailed design to support development and construction of the biogas upgrading facility. Layne is primarily responsible for coordinating between the design team and the developer, constructability, and QA/QC of deliverables.

BITP Digester Phase 2 Design | Olympia, WA

LOTT Clean Water Alliance

Layne provided constructability and interdisciplinary QA/QC for an in-plant retrofit, including extensive construction sequencing and coordination planning, major equipment preselection and procurement, and energy optimization and incentives. The design's use of linear motion mixers is estimated to save approximately 1 million kWh annually compared to the lower-cost, more energy-intensive alternative. The original impetus for this work was the formation of LOTT's energy team in 2012–2013 associated with its local utility's SEM program. As its SEM coach, Layne introduced LOTT to linear motion mixer technology during one of the program coaching sessions. Because of strict sequencing requirements, the measurement and verification period for this project will not conclude until 2028.

ELIZABETH MILLER, PE



Benefit to WES

- Is familiar with biosolids processing systems design
- Has experience coordinating during design and construction with a variety of stakeholders (owner, O&M staff, contractor, subconsultants, various design disciplines)
- Has experience with InfoWater, InfoSWMM, AFT Fathom, AFT for system optimization

Biosolids and Digestion

YEARS OF EXPERIENCE: 6 ■ BS, CIVIL ENGINEERING, UNIVERSITY OF WASHINGTON ■
PROFESSIONAL ENGINEER - CIVIL, OR #105435PE, WA #24027602

Elizabeth is a civil engineer with experience providing civil and mechanical design support to local agency, industrial, and tribal clients for water and wastewater projects. Her experience includes design services for pump station rehabilitation and replacements, positive displacement pump station design, force main improvements, and reclamation plant solids handling and dewatering system upgrades. She is experienced in modeling closed-pipe and open-channel hydraulic systems in both steady and unsteady (surge/transient) flow conditions.

RELEVANT EXPERIENCE:

BITP Digester Phase 2 Design | Olympia, WA

LOTT Clean Water Alliance

This project included replacing the existing floating covers of four 1-mg digesters with new fixed covers and replacing the existing gas mixing system with linear motion mixers. The existing biogas collection, distribution system, and control strategies were also replaced and upgraded. Elizabeth provided mechanical design assistance and gas system modeling during design. Design was completed in early 2024, and Elizabeth is managing the construction administration activities.

Water Reclamation Facility Upgrade Construction Services | Yelm, WA

City of Yelm

This project included an overall facility upgrade, converting an SBR treatment process with 0.6-mgd capacity to an MBR treatment process with 1.8-mgd capacity and a biosolids processing system upgrade that will produce Class A biosolids. The project included constructing new structures, demolishing and converting existing structures, and integrating existing and new underground infrastructure. Elizabeth designed the biosolids upgrade portion, which involved demolishing the existing gravity belt thickener and installing a new centrifuge and dryer.

She performed full-time construction administration and inspection and communicated with relevant parties to resolve conflicts and ensure steady facility operations throughout construction.

Orting WWTP Phase II | Orting, WA

City of Orting

Elizabeth led the mechanical and civil design of the solids treatment and dewatering process upgrades. The upgrades included decommissioning the existing sludge treatment/storage lagoon and installing a biosolids processing system, which included sludge screening, membrane thickening, centrifuge dewatering, and drying to produce Class A biosolids.

CBWTP Resource Recovery Plan | Portland, OR

City of Portland

This project involves planning for management and recovery of biosolids, struvite, and recycled water at the CBWTP. Elizabeth is the deputy project manager and led the team and prepared and reviewed various elements of the plan, including a biosolids market assessment, biosolids and struvite technology evaluation memoranda, and regulatory analysis. She performed digester capacity evaluation based on current and future operational strategies.

JOE MITZEL, PE



Benefit to WES

- Has project experience that includes wastewater recycling permitting and design, surface water hydrology, water treatment processes, hydraulic modeling, civil design, and environmental compliance

Industrial & Side Stream Process

YEARS OF EXPERIENCE: 12 ■ MS, ENVIRONMENTAL ENGINEERING, OREGON STATE UNIVERSITY ■ BS, ENVIRONMENTAL ENGINEERING, MONTANA TECH OF THE UNIVERSITY OF MONTANA ■ PROFESSIONAL ENGINEER - CIVIL, OR #101467PE, WA #20123398

Joe is a water resource engineer with industrial experience related to due diligence, environmental compliance, water treatment, mixing zone analysis, hydrologic modeling, and recycled water permits. Joe supports a range of clients, such as natural gas utilities, solid waste management companies, state parks, metal recycling companies, data centers, and ports. His expertise is in supporting industrial and municipal recycled water permits for beneficial use activities, such as irrigation of farmland, and he works directly with state agencies, operators, farmers, and soil scientists to develop operation's plans for permit compliance.

RELEVANT EXPERIENCE:

Maintenance, and Management Plan Update | Boardman, OR

Port of Morrow

As lead author and deputy project manager, Joe worked with farmers, soil scientists, and a wastewater discharger to develop an Operations, Management, and Monitoring (OM&M) Plan within 90 days of a permit modification to help the client remain in compliance with a Water Pollution Control Facility (WPCF) Permit. The wastewater discharger managed over 3 billion gallons of wastewater for reuse as irrigation water for crop land. The updated OM&M Plan required extensive knowledge and careful reading of the WPCF Permit to ensure the plan addressed wastewater characterization, proper calculation and reporting of nitrogen loading, hydraulic loading, and evidence-based methods for performing soil sampling of over 10,000 acres of crop land. It also included research into farming BMPs, irrigation strategies, and modern farming methods to integrate strategies for compliance.

Quil Ceda Village Reclaimed Water Discharge to Ebey Slough or Quil Ceda Creek | Tulalip, WA

Tulalip Tribes

Joe was a mixing zone modeling task lead to support an alternatives analysis. The purpose

was to evaluate new outfall locations for the MBR wastewater discharges. Joe used bathymetric and tidal data to simulate discharges using CORMIX modeling software to determine whether construction of new locations were feasible and whether further investigation and design was warranted.

NCRTS Leachate System Modification | Arlington, WA

Snohomish County

Joe was the project manager for evaluating the leachate treatment system. The purpose of the evaluation was to increase the facility's compliance with discharge standards of the City of Arlington, most notably for Biochemical Oxygen Demand, Total Suspended Solids, Copper, and Zinc. The evaluation included sampling from the facility's existing treatment system to evaluate pre/post-treatment performance, jar testing with coagulants and flocculants, and an alternatives analysis to select technologies or modifications that would improve permit compliance. The final deliverable included a technical report, cost estimate, proposed process flow diagram, and presentation to Snohomish County management.

BRANDON MOSS, PE



Benefit to WES

- ▶ Has versatile modeling capabilities to simulate treatment processes and hydraulics for multiple conditions and fluids
- ▶ Has multidisciplinary experience that allows modeling to be efficiently translated to process-mechanical designs
- ▶ Has experience preparing reports and permits for agencies helps meet regulations and avoid project delays

Hydraulic Modeling and CFD

YEARS OF EXPERIENCE: 8 ■ MS, CIVIL AND ENVIRONMENTAL ENGINEERING, UNIVERSITY OF WISCONSIN-MADISON ■ BS, CIVIL ENGINEERING, SEATTLE UNIVERSITY ■ PROFESSIONAL ENGINEER – CIVIL, WA #20123360, OR #100218PE

Brandon specializes in integrated simulation, planning, and design for wastewater, water, and stormwater infrastructure. He is experienced in modeling sewer and water networks and facilities, including closed-pipe and open-channel hydraulic systems in steady and unsteady flow conditions for compressible and incompressible fluids. Simulation software experience includes Autodesk InfoSWMM and InfoWater, Bentley WaterCAD, AFT Fathom, Impulse, and Arrow, and additional in-house developed tools. Brandon's 3D modeling experience includes computation fluid dynamics (CFD) capabilities with Flow Science FLOW-3D HYDRO. He is also experienced in system monitoring and testing to provide calibration and validation of model results.

RELEVANT EXPERIENCE:

BITP Biological Process Improvements Detailed Design | Olympia, WA

LOTT Clean Water Alliance

Brandon provided hydraulic modeling and design for biological process improvements. Brandon's hydraulic analysis guided structure modifications and pipe sizing to allow bypassing 75 mgd around primary anoxic treatment and ensured secondary treatment structures could allow a flow of 77 mgd. During process startup, Brandon used CFD modeling to evaluate aeration mixing performance in the BNR tanks.

Water Reclamation Facility Upgrade Phase 2 | Yelm, WA

City of Yelm

Brandon provided design support for the upgrade to a new MBR treatment process, including developing the plant hydraulic profile (headworks, secondary treatment, MBR permeate, and disinfection) as well as sizing channels, flow split structures, and pipes for future 4.22 mgd peak flows. CFD modeling was used to support and optimize design of the flow splitting structures. Brandon also supported sizing and mechanical design of the grit removal system, secondary treatment feed forward process, plant

drain pump station, off-spec waste activated sludge storage pond, and secondary treatment aeration blowers and piping.

Rehabilitation of CSO Facilities | Spokane, WA

City of Spokane

Brandon was the modeling lead overseeing this project using CFD to design modifications to a 375-foot-long CSO inlet channel with the goal of increasing scour velocity and reducing clean-out maintenance costs. The modeling resulted in a design that tapered the channel width down over 25 feet and maintained the narrow channel for another 50 feet to the outlet.

Sunriver Wastewater Treatment Plant Upgrade | Sunriver, OR

Sunriver Environmental, LLC

Brandon prepared a pre-design report for the DEQ, which detailed proposed upgrades to Sunriver's existing WWTP. He also provides ongoing hydraulic analysis for the proposed upgrades, which include a new headworks facility, MBR retrofit, and solids handling upgrades. Additionally, CFD analysis was performed to locate mixers to optimize mixing within treatment basins.

DREW NORTON, PE



Benefit to WES

- ▶ Hands-on experience designing, installing, commissioning, maintaining, and optimizing gas flares and waste gas burners
- ▶ Provides practical expertise centered around safety, operational ease, and regulatory compliance
- ▶ Efficient troubleshooting and analysis of biogas system issues and holistic understanding of how proposed improvements impact existing system performance

Air Permitting and Waste Gas Burners

YEARS OF EXPERIENCE: 9 ■ MS, ENVIRONMENTAL ENGINEERING, MONTANA STATE UNIVERSITY ■
BS, CHEMICAL ENGINEERING, MONTANA STATE UNIVERSITY ■ PROFESSIONAL ENGINEER - CHEMICAL, WA #23022790

Drew is a biogas and gas management specialist with experience in environmental engineering with a focus on biogas collection, renewable natural gas processing, compliance, and waste gas flare systems. His background includes direct field experience as a field engineer for a mobile flare and vapor combustor provider. He has supported the permitting, design, and construction of wastewater, landfill, and industrial gas projects and provides on-going system operations, adjustments, inspections for several smaller utilities. His experience includes active and passive landfill and wastewater digester gas collection systems, leachate collection and side stream treatment, construction management, and air quality permit compliance.

RELEVANT EXPERIENCE:

Industrial Wastewater Treatment Plant New Enclosed Flare | Sunnyside, WA

Port of Sunnyside

Drew was the project engineer for the replacement of the open flare with a new enclosed flare. He led design, pre-procurement, permitting, and construction of a the new enclosed flare to meet regulatory requirements from the Yakima Region Clean Air Agency. Drew is helping design, procure, and install a new recycled natural gas treatment facility utilizing pressure swing absorption for gas treatment and upgrade.

Biogas and Landfill Engineering Services | Ephrata, WA

Grant County

Drew is the project manager for the annual services contract. This work focuses on operation of the Ephrata Landfill and includes landfill gas collection system operation and design and environmental reporting services. Drew regularly provides landfill gas monitoring and data interpretation, including operation of the active landfill gas collection and flare system and annual greenhouse gas reporting. In 2024, Drew worked closely with landfill operators to develop an implementation strategy to meet new methane gas emissions regulations.

Digester Phase 2 Improvements, Waste Gas Burner Preselection and Design | Olympia, WA

LOTT Clean Water Alliance

Drew was the biogas SME for all support facilities under this project. This included analysis of biogas quality, determination of high and low heating values, pressure/flow modeling for the new gas piping, and preselection of the final waste gas burner manufacturer. Construction-ready submittals were prepared and incorporated into the new gas distribution system which includes several hundred feet of gas piping, new gas flow meters, dual means of isolation, and new gas management strategies.

Horn Rapids Landfill Engineering Services | Richland, WA

City of Richland

Drew leads the landfill gas portion of this contract. This work includes regular review of gas generation and collection systems, environmental controls monitoring data, system operations review, environmental reporting, and coordination with the recycled natural gas plant operator. Drew led the modification to the active gas collection system and was the design engineer for the installation of gas collection trenches to extend the existing gas system into newly developed areas.

BRIAN PIPPIN, PE



Benefit to WES

- ▶ Has extensive discharge permitting experience in Region 10
- ▶ Has professional relationships with several ODEQ water quality program personnel
- ▶ Has experience with CORMIX dilution model and performs other types of dilution calculations
- ▶ Is well versed in all facets of industrial and municipal wastewater and stormwater discharge evaluations and permitting

Compliance and Mixing Zone Analysis

YEARS OF EXPERIENCE: 37 ■ BS, MECHANICAL ENGINEERING, UNIVERSITY OF WASHINGTON ■
PROFESSIONAL ENGINEER – MECHANICAL, WA #30838

Brian performs dilution modeling to support NPDES and other environmental permitting for industrial, municipal wastewater, and stormwater discharges. He is currently leading the NPDES permitting for a planned new discharge in Washington and another in Oregon. He has modeled municipal and industrial wastewater discharges for more than 25 facilities in Washington, Oregon, and Alaska. Brian also evaluates stormwater discharges to support NPDES permits and environmental impact statements, biological assessments, and Endangered Species Act consultations and has developed methodologies to address the episodic nature of stormwater discharges and variability of tidal and riverine receiving waters.

RELEVANT EXPERIENCE:

Master Planning and Predesign | Pacific City, OR

Pacific City JWSA

Brian prepared a mixing study work plan and performed the mixing zone analysis for discharges from a WWTP that serves approximately 1,000 full-time residents and 5,000 seasonal residents. He coordinated with PCJWSA, ODEQ, and subconsultants to determine the scope of receiving water and outfall data collection needed to support the dilution modeling. Brian supervised receiving water current, temperature, and salinity data collection through a subconsultant, the results of which demonstrated that the WWTP outfall diffuser is in a tidally influenced reach of the Nestucca River. He used the CORMIX dilution model to evaluate reasonable-worst-case receiving water conditions and determined when the lowest dilutions occurred. Brian's efforts led to reissuance of PCJWSA's NPDES permit.

WWTP Outfall Mixing Zone Study | Duvall, WA

City of Duvall

Brian recently advised the client about permit renewal strategies and processes. He previously provided direction and senior QC review for a mixing study update for the City's treated wastewater discharge to the Snoqualmie River.

The WWTP comprises a membrane bioreactor and serves about 7,700 residents. The update was needed to address new human health criteria in Washington and was a condition of the NPDES permit. Brian's efforts led to the successful completion of a quality mixing study update.

Mixing Studies, NPDES Support | Marysville, WA

City of Marysville

Brian developed the mixing study work plan and performed the mixing study for the City's WWTP Outfall 001 to Steamboat Slough, Snohomish River Estuary. Ecology required the mixing study as an NPDES permit condition to address present conditions and future growth. Ecology also required validation of the dilution modeling in accordance with its permit writer's guidance manual. Steamboat Slough is subject to tidal influence, and the outfall diffuser requires routine sediment removal and occasional repairs. Brian successfully modeled the full range of receiving water and diffuser repair states to demonstrate that water quality standards would be met for present and future conditions. Brian's efforts resulted in compliance with the NPDES permit requirement for a new mixing study.

SCOTT WEIRICH, PHD, PE



Benefit to WES

- ▶ Is a certified Group IV WWTP Operator
- ▶ Has experience interfacing with operations staff and getting input and feedback on alternatives
- ▶ Has expertise with advanced wastewater secondary treatment processes
- ▶ Has experience evaluating energy-saving projects and new technologies
- ▶ Is Water Environment Federation published on the use of Peracetic Acid and testing procedures for wastewater disinfection

Secondary Treatment

YEARS OF EXPERIENCE: 20 ■ PHD, MS, ENVIRONMENTAL ENGINEERING, UNIVERSITY OF COLORADO ■ BS, CIVIL ENGINEERING, UNIVERSITY OF COLORADO ■ PROFESSIONAL ENGINEER - CIVIL, WA #20122702 ■ GROUP IV WASTEWATER OPERATOR CERTIFICATION, #8689

Scott specializes in operational support, troubleshooting, and optimization of WWTPs. He worked as an optimization engineer for the City of Boulder, Colorado, where he focused on optimization of denitrification through supplemental carbon addition. Later, as an operator at the City of Everett wastewater plant, he led an energy conservation team, which resulted in significant cost savings through operational changes. Since joining Parametrix, Scott has worked with plant operators to support startup of nutrient removal upgrades at LOTT Cleanwater Alliance, troubleshoot nitrification issues at Black Butte Ranch, and optimize anaerobic selector performance for the City of Portland, among other projects. He is passionate about giving operators the tools they need for their facilities to succeed.

RELEVANT EXPERIENCE:

CBWTP Process Support | Portland, OR

City of Portland

Scott served as task order manager and engineer, providing on-site sampling, water quality analysis, troubleshooting of process upsets, and recommendations for operational changes to improve treatment resilience.

CBWTP CEPT Improvements for pH Compliance | Portland, OR

City of Portland

Scott performed planning and data analysis for pilot testing alternatives to ferric chloride to improve wet weather flow treatment and pH compliance at the CBWTP. The full-scale pilot testing included establishing new chemical dosing strategies and innovative use of flow routing changes at the facility using existing equipment to imitate CSO conditions.

Water Reclamation Facility Upgrade Phase 2 | Yelm, WA

City of Yelm

Scott served as engineer, establishing the secondary treatment basis of design for upgrades to the biological nutrient removal plant. This project included converting the existing SBR process to an

MBR process with minimal additional tankage. Scott is the site engineer during startup.

Black Butte Ranch General Engineering Services | Black Butte, OR

Black Butte Ranch

Scott serves as the lead engineer to troubleshoot nitrification problems that developed during cold weather at the facility. Key tasks included determining the factors leading to nitrification impairment, such as solids washout and extreme cold temperatures and recommending the means to address those issues.

Budd Inlet WWTP Biological Process Improvements | Olympia, WA

LOTT Clean Water Alliance

Scott served as construction support engineer during startup, including writing the startup timeline and procedures for the biological process modifications and working through the operations plan with operations staff. This resulted in a smooth startup, with the new process immediately producing high-quality effluent, maintaining adequate nitrification and denitrification throughout.

APPENDIX B: Proposal Certification



PROPOSAL CERTIFICATION
RFP #2025-01

Submitted by: Parametrix, Inc. | Washington
(Must be entity's full legal name, and State of Formation)

Each Proposer must read, complete and submit a copy of this Proposal Certification with their Proposal. Failure to do so may result in rejection of the Proposal. By signature on this Proposal Certification, the undersigned certifies that they are authorized to act on behalf of the Proposer and that under penalty of perjury, the undersigned will comply with the following:

SECTION I. OREGON TAX LAWS: As required in ORS 279B.110(2)(e), the undersigned hereby certifies that, to the best of the undersigned's knowledge, the Proposer is not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means the tax laws of the state or a political subdivision of the state, including ORS 305.620 and ORS chapters 316, 317 and 318. If a contract is executed, this information will be reported to the Internal Revenue Service. Information not matching IRS records could subject Proposer to 24% backup withholding.

SECTION II. NON-DISCRIMINATION: That the Proposer has not and will not discriminate in its employment practices with regard to race, creed, age, religious affiliation, sex, disability, sexual orientation, gender identity, national origin, or any other protected class. Nor has Proposer or will Proposer discriminate against a subcontractor in the awarding of a subcontract because the subcontractor is a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns or an emerging small business that is certified under ORS 200.055.

SECTION III. CONFLICT OF INTEREST: The undersigned hereby certifies that no elected official, officer, agent or employee of Clackamas County is personally interested, directly or indirectly, in any resulting contract from this RFP, or the compensation to be paid under such contract, and that no representation, statements (oral or in writing), of the County, its elected officials, officers, agents, or employees had induced Proposer to submit this Proposal. In addition, the undersigned hereby certifies that this proposal is made without connection with any person, firm, or corporation submitting a proposal for the same material, and is in all respects fair and without collusion or fraud.

SECTION IV. COMPLIANCE WITH SOLICITATION: The undersigned further agrees and certifies that they:

1. Have read, understand and agree to be bound by and comply with all requirements, instructions, specifications, terms and conditions of the RFP (including any attachments); and
2. Are an authorized representative of the Proposer, that the information provided is true and accurate, and that providing incorrect or incomplete information may be cause for rejection of the Proposal or contract termination; and
3. Will furnish the designated item(s) and/or service(s) in accordance with the RFP and Proposal; and
4. Will use recyclable products to the maximum extend economically feasible in the performance of the contract work set forth in this RFP.

Name: Roger Flint Date: February 20, 2025
Signature:  Title: Chief Operating Officer
Email: rflint@parametrix.com Telephone: 509-994-2833
Oregon Business Registry Number: 080125-93 OR CCB # (if applicable): _____

Business Designation (check one):

☒ Corporation ☐ Partnership ☐ Sole Proprietorship ☐ Non-Profit ☐ Limited Liability Company

☒ Resident Quoter, as defined in ORS 279A.120

☐ Non-Resident Quote. Resident State: _____